

ACRONYMS AND ABBREVIATIONS

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°C	degree Celsius	ACCESS	advanced cosmic-ray composition experiment for space station
□	gamma	ACHR	acetylcholine receptor
□	lambda	ACIPS	advanced collective integrated protection system
μ	micron	ACM	attitude control module
μA	microampere	ACT	active control technology
μF	microfarad	ACT/FHS	active control technology/flying helicopter simulator
μJ	microjoule	ACTD	advanced concept technology demonstration
μJ/cm	microjoules per square centimeter	ACTIVE	advanced control technologies for integrated vehicles
μm	micrometer	ACTS	Advanced Communication Technologies and Services
μsec	microsecond	ACVs	air cushion vehicles
□	ohm	AD	air defense
2-D	two-dimensional	AdAPT	Adaptive Aircraft Performance Technology
3-D	three-dimensional	ADN	ammonium dinitramide
3P	prefragmented, programmable, proximity	ADN	ammonium dinitrimide
A	ampere	ADP	adenosine diphosphate
Å	angstrom	ADS	advanced distributed system
A&EM	armaments and energetic materials	ADS	air defense suppression
A/D	analog to digital	ADSRC	Advanced Distributed Simulation Research Consortium
A/O	acoustic/optic	ADTS	asynchronous digital transmission system
A/sec	amperes per second	AEDC	Arnold Engineering Development Center
AAAV	advanced amphibious assault vehicle	AEOS	advanced electro-optical system
AAN	Army After Next	AES	advanced encryption standard
ABATE	ACTS Broadband Aeronautical Terminal and Experiment	AES	all-electric ship
ABCS	Army Battle Command System	AES	auger electron microscope
ABE	autonomous Benthic explorer	AETWG	Armaments and Energetic Materials Technology Working Group
ABEC	Annular Bearing Engineers Committee	AEW	aircraft early warning
ABIS	Advanced Battlespace Information System		
ABL	airborne laser		
ABS	antilock braking system		
AC	alternating current		
ACC	Air Combat Command (USAF)		

AFATDS	Advanced Field Artillery Tactical Data System	AISI	American Iron and Steel Institute
AFB	Air Force Base	AIST	Agency of Industrial Science and Technology (Japan)
AFC	alkaline fuel cell	AIWS	advanced interdiction weapon system
AFIT	Air Force Institute of Technology	AJ	anti-jam
AFM	atomic force microscopy	AL	Albania
AFOSR	Air Force Office of Scientific Research	Al-Li	aluminum-lithium
AFOSR/EOARD	Air Force Office of Scientific Research/European Office of Aerospace Research and Development	ALPS	assembly-line processing system
AFRL	Air Force Research Laboratory	ALU	arithmetic logic unit
AFRL/PR	Air Force Research Laboratory/Propulsion Directorate	AM	antimaterial
AFS	atomic frequency standard	Am	americium
AFSAB	Air Force Science Advisory Board	AM	amplitude modulation
AFSOC	Air Force Special Operations Command	AM0	air mass zero
AFSPC	Air Force Space Command	AM1.5	air mass 1.5
AFV	armored fighting vehicle	AMC	Army Materiel Command
AG	Australia Group	AMC	Air Mobility Command (USAF)
Ag	silver	AMCOM	U.S. Army Aviation and Missile Command
AGARD	Advisory Group for Aerospace Research and Development	AMD	antimissile defense
AGB	advanced gun barrel	AMGS	advanced material gun system
AgGaSe ₂	silver gallium selenide	AMMO	azidomethylmethyloxetane
AGL	above ground level	AMP	adenosine mono-phosphate
AGMA	American Gear Manufacturers Association	AMR	amorphous magnetoresistive
AGR	advanced gas reactor	AMRAAM	advanced medium-range air-to-air missile
AGT	aboveground test	AMRL	Aeronautical and Maritime Research Laboratory (Australia)
AGT	advanced gun technology	AMR	amorphous magnetoresistive
Ah	ampere-hour	AMTEC	alkali metal thermal-to-electric converter
AHRS	attitude and heading reference system	AMTI	airborne moving target indication
AHS	automated highway system	amu	atomic mass unit
AI	artificial intelligence	AN	ammonium nitrate
AIAA	American Institute of Aeronautics and Astronautics, Inc.	ANL	Argonne National Laboratory
AIN	aluminum indium nitride	ANMO	azidonitratomethyloxetane
AIP	air-independent power	ANN	artificial neural network
AIP	air-independent propulsion	ANNG	Anti-Navire Nouvelle Génération
		ANSI	American National Standards Institute
		ANTEC	alkali-metal thermal-to-electrical converter

AOC	air operations center	AS-15s	Russian cruise missile
AP	ammonium perchlorate	ASMD	antiship missile defense
AP	antipersonnel	ASRI	Australian Space Research Institute
AP	armor piercing	ASRP	Adaptive Spectral Reconnaissance Program
APAM	antipersonnel/antimaterial	ASTAMIDS	airborne stand-off minefields detection system
APB	antimatter particle beam	ASTM	American Society for Testing and Materials
APC	armored personnel carrier	ASTMP	Army Science and Technology Master Plan
APFSDS	armor piercing, fin-stabilized, discarding sabot	ASTWG	Aeronautics Systems Technology Working Group
APG	Aberdeen Proving Ground (Maryland)	ASUW	antisurface warfare
APGM	autonomous precision-guided munition	ASW	antisubmarine warfare
API	application program interface	AT	antitank
APOD	aerial port of debarkation	AT	Austria
APS	active protection system	ATA	Advanced Technology Attachment
APS	advanced photon source	ATAC	Advance Technology Aircraft
APS	American Physical Society	ATACMS	Army Tactical Missile System
AR	Argentina	ATACS	advanced tank cannon system
Ar	argon	ATAR	Advanced Technology Assessment Report
ARDEC	Army Research, Development, and Engineering Center	ATC	air traffic control
ArF	argon fluoride	ATCC	American type culture collection
ARL	Army Research Laboratory	ATD	advanced technology demonstration
ARO	Army Research Office	ATD	Advanced Technology Development
ARTEMIS	Advanced Relay and Technology Mission Satellite	ATE	automatic test equipment
As	arsenide	ATF	automatic terrain following
A-S	antispoofing	ATGW	antitank guided weapon
AS4/T-500	carbon filter designations	ATIC	advanced thin ionization calorimeter
ASARS	Advanced Synthetic Aperture Radar Systems	ATIP	Asia Technical Information Program
ASCM	advanced spaceborne computer modular	ATIRCM	advanced tactical infrared countermeasures
ASCM	antiship cruise missile	ATL	advanced tactical laser
ASDL	Aerospace Systems Design Laboratory (Georgia Institute of Technology)	ATM	asynchronous transfer mode
ASDL	asymmetrical digital subscriber line	ATP	adenosine triphosphate
ASE	amplified spontaneous emission	ATR	air turbo ramjet
a-Si	amorphous silicon	ATR	automatic target recognition
ASIC	application-specific integrated circuit	AU	Australia

Au	gold	BHP	brake horsepower
AUV	autonomous underwater vehicle	BICMOS	bipolar complementary metal oxide semiconductor
AUV	autonomous unmanned vehicle	BIDS	biological integrated detection system
AVIRIS	airborne visible/infrared imaging spectrometer	BIFF	battlefield identification friend or foe
AVLIS	atomic vapor laser isotope separation system	BIT	broadband information technology
AVS	automated vapor sampling	BIT	bismuth titanate
AW	advanced weapons systems	BITA	butylene imine trimesamide (polyfunctional aziridine amides with isophthalic, trimesic)
AWACS	Airborne Warning and Control System	BITE	built-in-test-equipment
B	magnetic induction	BITWG	Biological Technology Working Group
B/C	biological and chemical	BJT	bipolar junction transistor
Ba	barium	BL	biosafety level
BACT	best available control technology	BLOS	beyond line of sight
BAMO	bis(azidomethyl)oxetane	BLSR	bidirectional line-switched ring
BAPO	phosphine oxide	BLU 80/B	Bigeye Weapon
bar	0.987 atmospheres	BMD	Ballistic Missile Defense
BASE	beta alumina solid electrolyte	BMDO	Ballistic Missile Defense Organization (now MDA)
BASS	bulk avalanche semiconductor switch	BN	boron nitride
BAT	brilliant antitank	BNCP	cis-bis(5-nitrotetrazolato) pentaamminecobalt (iii) perchlorate
BATES	Battlefield Artillery Target Engagement System	BNMO	bis(nitratomethyl)oxetane
BCIS	battlefield combat identification system	BNO	butadienitrileoxide
BCMO	bischloromethyloxetane	BOBBA 8	bis(2-methyl aziridiny)-2-(2-hydroxypropanoxy)propylamino phosphine oxide
BDA	battle damage assessment	BOL	beginning of life
BDNPA	bis(2,2-dinitropropyl) formal and acetal	BOOM	binocular omnidirectional-oriented monitor
BDNPF	bis(2,2-dinitropropyl) formal	BOSS	bistable optically controlled semiconductor switch
BDU	battle dress uniform	BP	black powder
BE	Belgium	bps	bits per second
BEAMTAP	Broadband and Efficient Adaptive Method for TTD Array Processing	BR	bacteriorhodopsin
BEC	Bose-Einstein condensates	BR	Brazil
BER	bit error rate	BRDF	bidirectional reflectance distribution function
BFV	Bradley fighting vehicle	BRM	biological response modifier
BG	Bulgaria	BRWL	bistatic radar for weapon location
BGO	bismuth germanate		
BHEGA	bis-2-hydroxyethylglycolamide		

BSC	biological safety cabinet	CAEP	China Academy of Engineering Physics
BTJ	buried triple junction	CAEPE	Centre d'Achèvement et d'Essais des Propulseurs et Engins
BTTN	butanetrioltrinitrate	CAG	carrier aircraft group
BTU	British thermal unit	CAI	computer-aided inspection
BTU/ft ²	BTU per square foot	cal	calorie
BuNENA	butyl-2-nitratoethyl nitramine	cal/cm ²	calories per square centimeter
BV	battlefield visualization	cal/cm ² -sec	calories per square centimeter second
BVP	blood volume pressure	CAM	chemical agent monitor
BVR	beyond visual range	CAM	computer-aided manufacturing
BW	biological weapon(s)	CANDU	Canadian deuterium uranium (reactor)
BWB	blended wing/body	CAP	combat air patrol
BWC	Biological Weapons Convention	CAPI	cryptographic application interface
BWO	backward wave oscillator	CARC	chemical agent resistant coating
BWR	boiling water reactor	CASA	Construcciones Aeronauticas S.A. (Spain)
C	Celsius temperature; centigrade	CAS	Chemical Abstract Service
C/A	course acquisition	CAS	close air support
C2	command and control	CAS	computer-aided servicing
C2I	command, control, and intelligence	CAS/M	computer-aided servicing/maintenance
C3	command, control, and communications	CAT	computer-aided testing
C3CM	command, control, and communications countermeasures	CAT	computerized axial tomography
C3I	command, control, communications, and intelligence	CATOX	catalytic oxidation
C4	command, control, communications, and computation	CATT	controlled avalanche transit-time triode
C4I	command, control, communications, computers, and intelligence	CATTB	Component Advanced Technology Test Bed
C4I2	command, control, communications, computing, intelligence, and information systems	CAV	common aero vehicle
C4IFTW	C4I for the warrior	CAVE	computer automatic virtual environment
CA	Canada	CB	coherent bremsstrahlung
CA	certification authorities	CB	chemical and biological
CAA	Clean Air Act	CBDCOM	Chemical Biological Defense Command (Army)
CAA	Concepts Analysis Agency (Army)	CBM	conventional ballistic missile
CAD	chemical agent detector	c-BN	cubic boron nitride
CAD	computer-aided design	CBPS	chemically and biologically protected shelter
CAE	common application environment		
CAE	computer-aided engineering		

CBRIF	Chemical Biological Incident Response Force	CEP	circular error probable; circle of equal probability
CBW	chemical and biological warfare	CEPT	Conference of Postal and Telecommunications Administration
CC	combinatorial chemistry		
cc	cubic centimeters		
C–C	carbon-carbon	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CCD	charge-coupled device		
CCD	closed-cycle diesel	CEREM	Le Centre d'Études et de Recherches sur les Matériaux
CCL	Commerce Control List		
CCM	computer-controlled machines	CFC	chlorofluorocarbon
CCM	counter-countermeasures	CFD	computational fluid dynamics
CCMS	Committee on the Challenges of Modern Society (NATO)	CFHAT	composite fire hazard analysis tool
		CFIT	controlled flight into terrain
CCS	common channeling signaling	CFL	coupled ferrite lines
CCW	counter-clockwise	CFRP	carbon-fiber-reinforced plastic
Cd	cadmium	CGA	column grid array
CD	compact disk	CGA	computer-generated actor
CD	Compton diode	CH	Switzerland
CD	critical diameter	CHEMEX	chemical exchange process
CD	critical dimension	CHER	catalytic heat exchanger/reactor
CDC	Centers for Disease Control and Prevention	CHESS	Cornell High-Energy Synchrotron Source
CdHgTe	cadmium mercury telluride	CHPS	Combat Hybrid Power Systems
CDISS	Centre for Defence and International Security Studies	CHSSI	Common High Performance Computing Software Support Initiative
CDL	chemical double layer	CHTWG	Chemical Technology Working Group
CDMA	code division multiple access		
CD-ROM	compact-disc read-only memory	CIAM	Central Institute of Aviation Motors (Russia)
CDs	Compton diodes		
CDT	critical developing technology	CIC	combat information center
CdTe	cadmium telluride	CID	charge injection device
CDU	control and display unit	CID	combat identification
CdZnTe	cadmium zinc telluride	CIDDS	combat identification dismounted soldier
CE	chemical energy		
CE	computing element	CIF3	chlorine trifluoride
CEA	Commissariat à l'Énergie Atomique (The French Atomic Energy Commission)	CINO	Office of the Chief Inspector of Naval Ordnance (United Kingdom)
CEC	California Energy Commission	CIP	cold isostatic pressing
CECOM	Communications-Electronics Command (Army)	CIS	copper indium diselenide
		CISC	complex instruction set computing
		CIWG	Combat Identification Working Group

CJCSI	Chairman, Joint Chiefs of Staff Instruction	CNRM	Centre National de Recherches Météorologiques
CKEM	compact kinetic energy missile	CNRS	Centre National de Recherche Scientifique
CL	Chile	CNS	central nervous system
CL-14	5,7-diamino-4,6-dinitrobenzofurazane-1-oxide	CNT	carbon nanotube
CL-20	hexanitrohexaazaisowurtzitane	CNT	Counterspace
CL-20/HNIW	hexanitro-hexaazaisowurtzitane	CNTD	controlled nucleation thermal decomposition
CLC	cholesteric liquid crystal	CO	carbon monoxide
CLO	counter low observable	CO	central office
CLOS	command-line-of-sight	CO	Colombia
CLT	critical layer thickness	CO	commanding officer
CM	countermeasures	CO ₂	carbon dioxide
cm	centimeter	Co-60	Cobalt-60
CMC	ceramic matrix composite	COBRA	collection of broadcasts from remote assets
CMIP	common management information protocol	COC	combat operations center
CMIS	Center for Mathematical and Information Sciences (Australia)	COCOM	Coordinating Committee for Multilateral Strategic Export Controls
CMISE	common management information service element	COIL	chemical oxygen iodine lasers
CMM	coordinate measuring machine	COLEX	column exchange
CMOL	CMIP over logical link control	COM/SATCOM	communications/satellite communications
CMOS	complementary metal oxide semiconductor	COMINT	communication intelligence
CMOT	common management information service over TCP/IP	COMM	communication
CMOT	complementary metal oxide technology	COMSEC	communications security
CMP	chemical mechanical planarization	CONUS	Continental United States
CMST	common management information services over TCP/IP	CO-OP	Consortium for Optical and Optoelectronic Technologies in Computing
CMU	Carnegie Mellon University	COP	common operational picture
cmW	centimeter wave	COTS	commercial off-the-shelf
CMW	centimeter wave	CP	2-(5-cyanotetrazolato) pentaammine-cobalt (iii) perchlorate
CN	China	CPB	charged particle beam
CNA	Center for Naval Analyses	CPE	customer premises equipment
CNC	computer numeric(al) control	CPU	central processing unit
CNE	Centre National d'Études Spatiales (France Space Agency)	CR	channeling radiation
CNM	customer network management	CR	Czech Republic
CNO	Chief of Naval Operations	CRDA	commercial research and development agreement

CREATIS	Centre de Recherche et d'Applications en Traitement de l'Image et du Signal (Center for Research and Applications in Image and Signal Processing)	CW	continuous wave
CREB	cyclic AMP response element binding	CWC	Chemical Weapons Convention
CRÈME	cosmic ray effects on micro-electronics	CXRD	coaxial X-ray diode
CRL	Communications Research Laboratory (Japan)	CZ	convergence zone
CRM	corrosion-related magnetic	D	deuterium
CRT	cathode-ray tube	D*	spectral detectivity
CRW	Canard Rotor Wing	D/A	digital to analog
CRYPTO	cryptographic	D ₂ O	deuterium oxide (heavy water)
CS	Czechoslovakia	DAB-P	digital audio baseband processor
CSERIAC	Crew System Ergonomics Information Analysis Center	DAC	digital to analog converter
CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)	DAF	diaminofarazan
CSNSM	Centre de Spectrométrie Nucléaire et de Spectrométrie de Masse	DARO	Defense Airborne Reconnaissance Office
CSP	chip-scale packaging	DARPA	Defense Advanced Research Projects Agency
CSU	channel service unit	DAS	defensive aid suite
CT	computerized tomography	DATB	diaminotrinitrobenzene
CTA	column and grid array	dB	decibel
CTBT	Comprehensive Test Ban Treaty	DBC	direct bonded copper
CTE	coefficient of thermal expansion	DBD	delayed breakdown device
CTIS	central tire inflation system	dBm	decibel referred to 1 milliwatt
CTP	common tactical picture	DBR	distributed Bragg reflectance
CTP	composite theoretical performance	DBRN	data-based referenced navigation
CTPB	carboxyl-terminated polybutadiene	DC	direct current
CTWS	case telescoped weapon system	DCC	digital cross-connect system
Cu	copper	DCE	distributed computing environment
CU	Cuba	DCN	data communication networks
CURV	cable-controlled underwater recovery vehicle	DCOR	deterministic combat model code
CVD	chemical vapor deposition	DCS	digital cross-connect systems
CVDS	continuous variable dynamic system	DCT	Developing Critical Technologies
CW	chemical warfare	DCTP	defense critical technologies plan
CW	chemical weapon(s)	DD/DT	deuterium deuterium/deuterium tritium
CW	clockwise	DDL	data description language
		DDR&E	Director of Defense Research & Engineering
		DDT	deflagration to detonation transition
		DDUS	Deep Depth UNDEX Simulator
		DE	directed energy
		DE	discrete event

DE	Germany (ISO)	DIRCM	defensive infrared countermeasures
DE ATAC	Directed Energy Advanced Technology Aircraft	DIS	distributed interactive simulation
DECADE	DNA X-ray simulator program	DIVX	digital video express
DECON	decontamination	DIW	detection, identification, warning
DEDS	discrete event dynamic system	DK	Denmark
deg/hr	degrees/hour	DKTWG	Directed Energy and Kinetic Energy Technology Working Group
DEMO	demonstration	DLC	diamond-like carbon
DEMP	dispersed electromagnetic pulse	DLC	digital loop carrier
DERA	Defence Evaluation and Research Agency (United Kingdom)	DLC	drop loop carrier
DERA	Defence Evaluation and Research Agency (UK)	DLL	dynamic link library
DES	data encryption standard	DLR	Deutsche Forschungsanstalt für Luft und Raumfahrt (German Aerospace Center)
DES	distributed energy store	DLR	German Aerospace Center
DET	distributed explosive	DME	distance-measuring equipment
DEW	directed energy weapon	DML	data modification language
DF	deuterium fluoride	DMS	diluted magnetic semiconductors
DF	difluor: methyl phosphonyl difluoride	DMSO	dimethyl sulfoxide
DFAD	digital feature analysis data	DN	bearing bore in mm multiplied by speed in rpm
DFE	diferrocenylethane	DNA	Defense Nuclear Agency (now part of DTRA)
DFE	direction-finding equipment	DNA	deoxyribonucleic acid
DGA	Direction Générale de l'Armement (French Defense Procurement Agency)	DNGU	dinitroglycoluril
DGNSS	differential global navigation satellite system	DNHR	dynamic nonhierarchical routing
DGPS	differential Global Positioning System	DNS	Doppler Navigation System
DGZ	designated ground zero	DNSS	Defense Navigation Satellite System
DHG	oxalohydroxamic acid	DOB	depth of burst
DHHS	Department of Health and Human Services	DOC	Department of Commerce
DHV	Demonstrateur Hyper Veloce (Aerospatiale missile)	DoD	Department of Defense
DIAL	differential absorption LIDAR	DODD	Department of Defense Directive
DIC	dispositif d'identification au combat	DOE	Department of Energy
DIMES	Delft Institute of Microelectronics and Submicron Technology (Netherlands)	DOF	depth of focus
DINGU	dinitroglycoluril	DOJ	Department of Justice
DIPAM	diaminohexanitrobiphenyl	DOS	Department of State
		DOT	Department of Transportation
		DQ	detection quotient
		DRAM	dynamic random access memory
		DRDO	Defence Research and Development Organisation (India)

DRE	Defence Research Establishment	E	energy
DREAM	directed radio-frequency energy-assessment model	e	limit of $\left[\frac{1}{n} \right]^n$ as n approaches infinity
DRES	Defense Research Establishment Suffield (Canada)	e.b.b	equivalent blackbody
DREV	Defence Research Establishment Valcartier (Canada)	E/O	electro/optical
DRM	dead-reckoning module	EA	electronic attack
DS	digital signals	EAA	Export Administration Act
DS	directionally solidified	EADS	European Aeronautic Defense and Space Company
DS-0	digital signal level 0	EAR	Export Administration Regulations
DS-I	digital signal level 1	EB	electron beam
DSL	digital subscriber line	EBDW	electron-beam direct writer
DSMAC	digital scene matching area correlation	e-beam	electron beam
DSMP	Defense Meteorological Satellite Program	EBPVD	electron-beam physical vapor deposition
DS-N	digital signal hierarchy	EBR-II	Experimental Breeder Reactor II
DSP	Defense Support Program	EC	European Commission
DSP	digital signal processor (processing)	EC	electronics and countermeasures
DSRO	Defense Science Research Organization (India)	ECAAM	electrochemically assisted arc machine
DSTO	Defense Science and Technology Organization (Australia)	ECAE	equal channel angular extension
DSU	data service unit	E-Cash	electronic cash
DSV	deep submersible vehicle	ECC	elliptic curve cryptography
DT	deuterium tritium	ECCM	electronic counter-countermeasures
DTAP	Defense Technology Area Plan	ECCN	Export Control Classification Number
DTE	data terminal equipment	ECD	Eurocopter Deutschland
DTED	digital terrain elevation data	ECM	electronic countermeasure
DTG	dry-tuned gyroscope	ECMWF	European Centre for Medium-Range Weather Forecasts
DTG	dynamically tuned gyroscope	ECR	electron cyclotron resonance
DTIC	Defense Technical Information Center	ECS	electrostatic chucks
DTO	Defense Technology Objective	ED	electric drive
DTR	data transfer rate	EDFA	erbium doped/fiber amplifier
DTRA	Defense Threat Reduction Agency	EDM	electrical discharge machines
DU	depleted uranium	EDO	extended data out
DU	digitized unit	EDP	electric dipole potential
DUV	deep ultraviolet	EDP	electric dipole-produced
DVD	digital video disk	EEC	European Economic Community
DZ	Algeria	EEG	electroencephalogram
		EELV	evolved expendable launch vehicle

EEPROM	electrically erasable programmable read-only memory	ENTWG	Energy Systems Technology Working Group
EFP	explosively formed penetrator	EO	electro-optical
EFPI	extrinsic Fabry-Perot interferometer	E _o	sublimation energy
EG	Egypt	EO-1	Earth Orbiter-1
EGI	embedded Global Positioning System inertial	EO-2	Earth Orbiter-2
EGM	Earth gravitational model	EOCCM	electro-optical counter-counter-measures
EGNOS	European Geostationary Navigation Overlay Service	EOCM	electro-optical countermeasures
EHF	extremely high frequency	EOD	explosive ordnance disposal
EIA	Electronic Industries Association	EOL	end-of-life
EID	electromagnetic induction detection	EOS	equation of state
ELAPS	equivalent laminated plate solution	EP	electronic protection
ELEX	electro-exchange	EPA	Environmental Protection Agency
ELF	extremely low frequency	EPC	electronic power conditioner
ELFE	extremely low-frequency electro-magnetic	EPLRS	enhanced position location reporting system
ELFE	extremely low-frequency emission	EPR	electron paramagnetic resonance
ELINT	electronic intelligence	EPRI	Electric Power Research Institute
ELPRS	enhanced position location reporting system	EPROM	erasable programmable read-only memory
ELTWG	Electronics Technology Working Group	EPS	environmental protection system
EM	electromagnetic	ER	electro-rheological
EMC	electromagnetic compatibility	ERA	explosive reactive armor
EMCDB	elastomer modified-cost double-based propellants	ERC	Energy Research Corporation
EMD	engineering and manufacturing development	ERCIM	European Research Consortium for Information and Mathematics
EMHD	explosive magnetohydrodynamic	ERINT	Extended Range Interceptor
EMHDG	explosive magnetohydrodynamic generator	EROS	Earth Resources Observation Systems
EMI	electromagnetic induction	ERP	effective radiated power
EMI	electromagnetic interface	ERS	electrically reconfigurable ship
EMI	electromagnetic interference	ERS-1	Earth Research Satellite
EMIS	electromagnetic isotope separation	ES	electronic suppression
EMK	electromagnetic	ESA	electronic safe and arm
EML	electromagnetic launch	ESA	European Space Agency
EMP	electromagnetic pulse	ESD	electrostatic discharge
EMS	Energy-Management System	ESF	energy storage flywheel
EMK	electromagnetic weapon	ESG	electrostatically supported gyroscope
ENA	energetic neutral atom	ESL	equivalent series inductance
		ESM	extended scattering mode

ESM	electronic support measure	FA	functional areas
ESO	European Southern Observatory	FAA	Federal Aviation Administration
ESPRIT	European Strategic Program on Research in Information Technology	FAC	fast-acting closure
		FAC	forward air controller
ESR	equivalent series resistance	FACE	Futur Avion de Combat Européen (French aircraft)
ESRP	European Supersonic Research Program	FACETS	flywheel attitude, control, energy transmission, and storage
ET	electrothermal	FADEC	full authority digital electronic engine controls
ETC	electrothermal-chemical	FADS	flush air data aystem
ETDL	Electronic Technology and Devices Laboratory	FAE	fuel-air explosives
ETH	Eidgenössisches Technische Hochschule	FALCON	fuel-air line charge ordnance neutralizer
ETK	electrothermal gun	FAR	false acceptance ratio
ETNO	European Telecommunications Network Operators	FAR	false-alarm rate
ETS	Engineering Test Satellite	FAST	field-adaptable systems technology
ETS	engineering test stand	FBCB2	Force XXI Battle Command Brigade-and-Below
ETSI	European Telecommunications Standards Institute	FBL	fly-by-light
EU	Eötvös unit	FBL/PBW	fly-by-light/power-by-wire
EU	European Union	FBM	fleet ballistic missile
EUCLIDES	Extreme UV Concept Lithography Development System	FBW	fly-by-wire
EURESCOM	European Institute for Research and Strategic Studies in Telecommunications	FCC	Federal Communications Commission
EUT	end user terminal	FCG	flux-compression generator
EUV	extreme ultraviolet	FCS	flight control system
EUVL	extreme ultraviolet lithography	FCV	future combat vehicle
eV	electron volt	FDA	Food and Drug Administration
EV	electronic vehicle	FDDI	fast digital data interconnect
EVA	extravehicular activity	FDIR	fault detection, isolation, and recovery
EVM	environmental vapor monitor	FDM	frequency division multiplexing
EW	electronic warfare	FEA	finite element analysis
		FEBA	forward edge of the battle area
		FEFO	bis-2-fluoro-2,2-dinitroethylformal
F	Fahrenheit	FEL	free electron laser
F	farad	FEMA	Federal Emergency Management Agency
f/max	maximum frequency	FET	field effect transistor
f/min	minimum frequency	FFI	Forsvarets Forsknings Institutt
F3I	form, fit, function, and interchangeable	FFRDC	Federally Funded Research and Development Center

FFT	fast Fourier transform	FSAP	full-spectrum attack protection
FGAN	Forschungsgesellschaft für Angewandte Naturwissenschaften e.V.	fsec	femtosecond
FHA	Federal Highway Administration	FSCS	Future Scout and Cavalry System
FHS	flying helicopter simulator	FSS	frequency selective surface
FI	Finland	FSU	Former Soviet Union
FIB	focused ion beam	FTA	Foreign Technology Assessment
FID	flame ionization detector	FTIR	Fourier transform infrared
FIFV	future infantry fighting vehicle	FTIT	fan turbine inlet temperature
FIPS	Federal Information Processing Standard	ft-lb	foot-pound
FIS	field ion spectrometry	FTW	for the warrior
FIV	future infantry vehicle	FWHM	full width at half maximum
FLAR	forward-looking automotive radar	FXR	flash X ray
FL	field LADAR	FY	Fiscal Year
FLC	ferroelectric liquid crystal	g	gram
FLIR	forward-looking infrared radar	g	measure of acceleration of gravity [32.174 feet per second ² (9.8 m/second ²)]
FLS	forward-looking sonar	G agents	nerve agents
FM	field manual	G&G	geodetic and geophysical
FM	frequency modulation	G-7	group of seven industrial nations
fMRI	functional magnetic resonance imaging	G-8	G-7 nations plus Russia
FMS	foreign military sales	Ga	gallium
FMS	force modeling and simulation	GA	tabun (nerve agent)
FOC	final operating capability	GaAs	gallium arsenide
FOG	fiber-optic gyroscope	GABA	gamma-aminobutyric acid
FOGM	fiber-optic guided missile	Gal	Galileo
FOPEN	foliage penetration	GAM	GPS-aided munition
FORTÉ	fast on-orbit recording of transient events	GaN	gallium nitride
FOV	field of view	GAO	General Accounting Office
FPA	focal plane array	GAP	glycidylazide polymer
FPD	flame photometric detector	GAUSS	Global Augmentation for Satellite Systems
FPD	flat panel display	GB	sarin (nerve agent)
FPE	fluoropolyester	Gbits/s	gigabits per second
FPGA	field programmable gate-array	GBL	ground-based laser
FPKI	Federal Public Key Infrastructure	GBq	gigabecquerel
fps	feet per second	GC	gas chromatography
FR	France	GCCS	global command and control system
FRP	Federal Radionavigation Plan	GD	soman (nerve agent)
FRP	fiber-reinforced plastic	GDP	gross domestic product

GDSS	group decision support system	GSAC	gas seal auxiliary closure
Ge	germanium	GSFC	Goddard Space Flight Center
GE	Germany	GSi	Gesellschaft für Schwerionen- forschung mbH
GEO	geosynchronous Earth orbit	GSLV	geosynchronous satellite launch vehicle
GeV	giga electron volts	GSM	global system for mobile communication
GFE	government-furnished equipment	GSR	galvanic skin response
GFLOPS	giga (10 ⁹) floating point operations per second	GST	glutathione S-transferase
GHz	gigahertz (10 ⁹ hertz)	GSTAMIDS	ground standoff mine detection system
GHz/sec	gigahertz per second	GSTS	Ground Station Tailoring System
GIG	global information grid	GSTWG	Ground Systems Technology Working Group
GIS	Geographic Information System	GTE	gas turbine engines
GLONASS	Global Navigation Satellite System (Russian)	GTN	General Technology Note
GLONASST	GLONASS system time	GTO	gate turn-off
GM	Geodetic Mission (GEOSAT)	GTO	geosynchronous transfer orbit
gm	gram	GUI	graphical user interface
GMCC	ground mobile command center	GVC	ground combat vehicle
GMP	good manufacturing practices	GW	gigawatt
GMR	giant magnetoresistive	Gy	Gray (gy) is a unit of absorbed dose of ionizing radiation equal to 100 rads per kilogram of absorber
GMTI	ground moving-target indication		
GNSS	Global Navigation Satellite Systems	H	hour
GOPS	giga (billion) operations per second	HA	hemagglutinin
GP	genetic polymorphism	HAB	high-altitude burst
GPa	gigapascals	HAN	hydroxylamine nitrate
GPA	one megabar	HAN	hydroxylammonium nitrate
GPC	general-purpose computer	HAP	hazardous air pollutant
GPIC	general-purpose integrated circuit	HAP	hydroxylammonium perchlorate
GPR	ground-penetrating radar	HARV	high alpha research vehicle
GPS	Global Positioning System	HAWK	homing all the way killer
GpTS	Global Positioning and Time System	HAZMAT	hazardous materials
GR	Greece	HBIW	hexabenzyl-hexaazaisowurtzitane
GRACE	Gravity Recovery and Climate Experiment	HBO	hyperbaric oxygen
GRC	John H. Glenn Research Center at Lewis Field [NASA (formerly the Lewis Research Center)]	HBT	hetero-bipolar transistors
GRMS	gravity root mean square	HCI	human computer interface
GRP	glass-reinforced plastic	HDDR	high-density digital recording
GS	ground systems	HDL	high-level development language

HDO	singly deuterated water	HK	Hong Kong
HDTV	high-definition television	HLA	high-level architecture
HE	high explosive	HLA	major histo compatibility
HE	human engineering	HLOS	horizontal line of sight
HEAP	Human Effects Advisory Panel	HMD	helmet-mounted display
HEAT	high explosive antitank	HMMWV	high-mobility multipurpose wheeled vehicle
HEDM	high-energy density material	HMO	health maintenance organization
HEL	high-energy laser	HMX	cyclotetramethylene-tetranitramine
HEMP	high electromagnetic pulse	HMX	Octogen
HEMP	high-altitude electromagnetic pulse	HNF	hydrazinium nitroformate
HEMT	high electron mobility transistor	HNIW	hexanitro-hexaazaisowurtzitane
HEO	highly elliptical orbit	HNO ₃	nitric acid
HEPA	high-efficiency particulate air	HNS	hexanitrostilbene
HERF	high-energy radio frequency	HOB	height of burst
HEST	High-Explosive Simulation Technique	HOE	holographic optical element
HET	horizontal emplacement test	hp	horsepower
HEU	highly enriched uranium	HPC	high-performance computing
HEV	hybrid-electric vehicles	HPC	high-pressure compressor
Hf	Hafnium (isomer)	HPCMO	High Performance Computer Modernization Office
HF	high frequency	HPCN	high-performance computing and networking
HF	hydrogen fluoride	HPE	high-power electronics
HF	hydrofluoric acid	HPG	homopolar generator
HFCG	helical flux compression generator	HPI	high-power impulse
HFET	heterostructure field-effect transistor	HPL	high-power laser
HfF ₄	hafnium fluoride	HPM	high-power microwave
HFIP	hexafluoroisopropanol	HPSLT	High-Power Semiconductor Laser Technology Program
HFSW	high-frequency sky wave	HPVI	hypervelocity impact
Hg	mercury	HRG	hemispherical resonator gyroscope
HgCdTe	mercury cadmium telluride	HRR	high-range resolution
HHS	Health and Human Services	HRR-GMTI	high-range resolution ground moving- target indication
HIIS	heavy ions in space	HR-SEM	high-resolution scanning electron microscope
HIL	hardware-in-the-loop	HSCT	high-speed civil transport
HIP	hot isostatic pressing	HSD	high strength to density
HIPER-KIDS	high-performance kiosk and desktop system	HSDB	high-speed data bus
HIPPI	high-performance peripheral interface	HSE	high-speed encryption
HITL	hardware-in-the-loop	HSI	human systems integration
HISTEC	high-stability engine-control (Boeing program)		

HSI	human systems interface	IAEL	International Atomic Energy List
HSI	hyperspectral imagery	IAG	International Association of Geodesy
HSP	heat shock protein	IAI	Israeli Aircraft Industries
HSR	High-Speed Research Program (NASA)	IALA	International Association of Lighthouse Authorities
HST	Hubble Space Telescope	IC	Iceland [IS - (ISO)]
HST	hypersonic transport	IC	integrated circuit
HSTAMIDS	hand-held standoff mine detection system	IC	intelligence community
HTGR	high-temperature gas-cooled reactor	IC2-SIP	International Command and Control Systems Interoperability Project
HTL	host technical liaison	ICAO	International Civil Aviation Organization
HTML	hypertext markup language	ICBM	intercontinental ballistic missile
HTO	singly tritiated water	ICD	interface control document
HTPB	hydroxyl-terminated polybutadiene	ICE	integrated command environment
HTS	high-temperature superconducting	ICO	Intelligent Combat Outpost
HTS	high-temperature synthesis	ICR	intercooled recuperated
HTT	horizontal tunnel test	ICRGT	intercooled recuperated gas turbine
HTU	handheld terminal unit	ICS	intercommunications system
HU	Hungary	ICT	(Fraunhofer) Institute for Chemical Technology (Germany)
HUD	head-up display	ICt	incapacitating concentration time
HVAC	heating, ventilation, and air conditioning	ID	identification
HVI	hypervelocity impact	ID	incapacitating dose
HVWS	Hypervelocity Weapon System	ID	Indonesia
HWR	heavy water reactor	IDE	integrated drive electronics
HY	high yield	IDL	interactive data language
HYPR	Hypersonic Propulsion Technology Program (Japan)	IE	Ireland
HySET	Hydrocarbon Scramjet Engine Technology	IEEE	Institute of Electrical and Electronic Engineers
HYSWAS	high-yield small waterplane area ship	IEMP	internal EMP
Hz	hertz	IF	intermediate frequency
I/O	input/output circuit	IFF	identification friend or foe
I2	image intensifier	IFOV	instantaneous field of view
I2L	integrated injection logic	IFS	indirect fire system
I ²	image intensification	IFSAR	interferometric synthetic aperture radar
I ² R	power	IFV	infantry fighting vehicle
IAB	Internet Activities Board	IGEB	Interagency GPS Executive Board
IAEA	International Atomic Energy Agency	IGBT	insulated gate bipolar transit

IGBT	isolated gate bipolar transistor	Internet	international computer network
IHAS	integrated helmet assembly subsystem	INU	inertial navigation unit
IHCE	Institute of High Current Electronics (Russia)	IO	information operations
IHE	insensitive high explosive	IOM	Institute of Medicine
IHPRPT	Integrated High Payoff Rocket Propulsion Technology	Ip	impulse
IHPTET	Integrated High Performance Turbine Engine Technology	IP	internet protocol
III	International Industrial List	IP	isostatic pressing
IL	Industrial List	IPC	intermediate-pressure compressor
ILL	Institut Max von Laue–Paul Langevin	IPFN	integrated pulse-forming network
ILS	instrument landing system	IPN	Institut de Physique Nucléaire
IM	insensitive munitions	IPR	impulse response
IM&C	information system management and control	IPS	integrated power system
IMEC	Industrial Microelectronics Center	IQ	Iraq
IMETS	Integrated Meteorological System	IR	infrared
IMF	intelligent minefield	IR	Iran
IMPATT	impact avalanche transit-time triode	IR&D	independent research and development
IMS	ion mobility spectrometry	IRA	impulse radiating antenna
IMT	industrial materials and technology	IRCM	infrared countermeasures
IMU	inertial measurement unit	IRCOM	Institut de Recherche en Communications Optiques et Microondes
in.	inch	IRE	Institute of Radioengineering and Electronics (Russia)
IN	India	IRFPA	infrared focal plane array
In	indium	IRIG	Interrange Instrumentation Group
INAV	integrated navigation	IRST	infrared search and track
IND	improvised nuclear device	IRU	inertial reference unit
INFO COM	information communications	IS	Iceland
INFO EXCH	information exchange	IS	information system
INFOSEC	information security	ISA	Industry Standard Architecture
INFOWAR	information warfare	ISA	inertial sensor assembly
InGaAs	indium gallium arsenide	ISAR	inverse synthetic aperture radar
INMARSAT	International Marine/Maritime Satellite	ISAS	Institute of Space and Astronautical Science (Japan)
INMS	integrated network management systems	ISDN	integrated services digital network
InP	indium phosphorus	ISIT	Fraunhofer Institute for Silicon Technology
INS	inertial navigation system	ISL	France-German Research Institute of Saint Louis
InSb	indium antimonide	ISO	International Standards Organization
		I_{sp}	specific impulse

ISR	intelligence, surveillance, and reconnaissance	JP	Japan
ISS	integrated sensor suite	JP	jet propulsion
ISS	International Space Station	JPEG	Joint Photographic Experts Group
ISSMO	International Society of Structural and Multidisciplinary Optimization	JPL	Jet Propulsion Laboratory
ISU	inertial sensor unit	JPO	Joint Program Office
IT	information technologies	JSB	Japan storage battery
IT	Italy	JSF	Joint Strike Fighter
I_t	total impulse	JSFWC	Joint Staff Future Warfighting Capability
ITAG	inertial terrain-aided guidance	JSLIST	Joint Service lightweight integrated suit technology
ITAR	International Traffic in Arms Regulations	JSOW	Joint standoff weapon
ITRF	International Terrestrial Reference Frame	JSRIM	Joint Services Requirement for Insensitive Munitions
ITS	Intelligent Transport System	JSTARS	Joint Surveillance Target Attack Radar System
ITTWG	Information Technology Technology Working Group	JT	joule-thomson
ITU	International Telecommunications Union	JTIDS	Joint Tactical Distribution Information System
IW	information warfare	JTMD	Joint Theater Missile Defense
IWG	Interagency Working Group	JTR	Joint Tactical Radio
IXC	interexchange carrier	JTRS	Joint Tactical Radio System
J	joule	JUXOCO	Joint Unexploded Ordnance Coordination Office
J/cc	joules per cubic centimeter	JV	Joint Vision
J/gm	joules/gram	JWSTP	Joint Warfighting Science and Technology Plan
J/kg	joules per kilogram	k	magnetomechanical coupling+ factor
J/pulse	joules per pulse	K	Kelvin temperature
JCS	Joint Chiefs of Staff	K	thousand (kilo)
JDA	Japan Defense Agency	K-6	2,4,6-trinitro-2,4,6-triazacyclohexanone
JDAM	Joint direct attack munition	kA	kiloamperes
JDIS	Joint Distributed Information System	kA/cm ²	kiloamperes per cm ²
JEM	Japanese Experiment Module	kA/ns	kiloampere per nanosecond
JFCC	Japan Fine Ceramics Center	KAIST	Korea Advanced Institute of Science and Technology
JHU/APL	Johns Hopkins University/Applied Physics Laboratory	kbar	kilobar
JINR	Joint Institute of Nuclear Research	kbit	kilobit
JMA	Japan Meteorological Agency	kbps	kilobits per second
JMAT	Joint Service Medium-Caliber Automatic Gun Technology Group	kcal	kilocalorie
JNLWP	Joint Nonlethal Weapons Program		

kD	kilodaltons	kV/mil	kilovolts per mil
KDN	potassium dinitramide	kV/mm	kilovolts per millimeter
KE	kinetic energy	kV/ns	kilovolts per nanosecond
KEM	kinetic energy missile	KW	Kuwait
Keto-RDX	2,4,6-trinitro-2,4,6-triazacyclohexanone	kW	kilowatt
keV	kilo electron volt	kWe	kilowatt (electric)
KEW	kinetic energy weapon	kWh/kg	kilowatt-hours per kilogram
kG	kilogauss	l	liter
kg	kilogram	L	water beam attenuation length
kg/dm ³	kilograms per cubic decimeter	l/d	length-to-diameter
kg/kW	kilogram per kilowatt	L/D	lift/drag
kg/N	kilogram/Newton	LAAS	local area augmentation system
KGD	known good die	LADAR	laser detection and ranging
kHz	kilohertz	LADAR	laser radar
kJ	kilojoule	LAER	lowest achievable emission reductions
KKV	kinetic kill vehicle	LAN	local area network
KLEXT	K-mixing, low-energy, X-ray triggering	LANL	Los Alamos National Laboratory
km	kilometer	LANS	local area network system
km/sec	kilometers per second	LASER	light amplification by stimulated emission of radiation
kN	kilonewton	LASERCOM	laser communications
KOH	potassium hydroxide	LAV	light armored vehicle
KP	North Korea	lb/hp-hr	pounds per horsepower-hour
kPa	kilopascal (0.00987 atmospheres)	lb/kW	pounds per kilowatt
Kr	krypton	LBNL	Lawrence Berkeley National Laboratory
KR	South Korea	LB/TS	large blast/thermal simulator
krad(Si)	kilorads (in silicon)	LC	liquid crystal
KrF	krypton-fluoride	LCAC	landing craft, air cushion
KRS	key recovery system	LCD	liquid crystal display
KSHV	Kaposi Sarcoma HV	LCI	load commutated inverter
ksi	thousand pounds per square inch	LCP	liquid crystal polymer
kt	kiloton (yield)	LCt	lethal concentration time
kT	kiloton	LD	lethal dose
KTA	potassium titanyl arsenate	LDCs	lesser developed countries
ktap	one thousand dyne centimeters per second	LE	low explosive
KTP	potassium titanyl phosphate	LEAF	law enforcement access field
kV	kilovolt	LEC	local exchange carrier
kV/cm	kilovolts per centimeter	LED	laser-emitting diode
kV/m	kilovolts per meter		

LED	light-emitting diode	LOX	liquid oxygen
LEED	low-energy electron diffraction	LP	liquid propellant
LEL	low-energy laser	LPCVD	low-pressure chemical vapor deposition
LEMP	lightning electromagnetic pulse	LPD	low probability of detection
LEO	low-Earth orbit	LPG	liquefied petroleum gas
LEU	low enriched uranium	LPI	low probability of intercept
LFC	laminar flow control	LPI/LPD	low probability of intercept/low probability of detection
LGG	light gas gun	LPT	low power transceiver
LH2	liquid hydrogen	LPTF	Laboratoire Primaire du Temps et des Fréquences
Li	lithium	LRC	inductor, resistor, capacitor
Li-ion	lithium-ion	LRERI	Lviv Radio Engineering Research Institute (Ukraine)
LICA 12	neopentyl(diallyl)oxy-tri(dioctyl) phosphato titanate	LRF	laser range finder
LIDAR	light detection and ranging	LRR	lower reposition rate
LIHE	laser-initiated high explosive	LRU	line replaceable unit
LIS	laser isotope separation	LSTAT	life support for trauma and transport
LLI	Liebheer Aerospace Lindenberg	LTBT	limited test ban treaty
LLL	low light level	LTE	local thermal equilibrium
LLLTV	low light level TV	LTS	low-temperature superconductivity
LLNL	Lawrence Livermore National Laboratory	LU	Luxembourg
LLRC	low repetition rate capacitors	LUCE	Laser Utilizing Communications Equipment
LLS	laser line scanner	LVIS	launch vibration isolation system
LMDS	local multi-channel distribution service	LWIM	low-power wireless microsensors
LMFBR	liquid metal fast breeder reactor	LWIR	long-wave infrared
LMR	liquid metal reactor	LWIR	long wavelength infrared
LMRS	long-term mine reconnaissance system	LWR	laser warning receiver
LMS	least mean square	LY	Libya
LMT	large mmW telescope	m	meter
LNG	liquefied natural gas	m	milli (10 ⁻³)
LO	low observable	M	million; as prefix, Mega
LOCAAS	Low-Cost Antiarmor System	M&C	management and control
LOCAAS	Low-Cost Autonomous Attack System	M&S	modeling and simulation
LORAN	long-range aid to navigation	m/sec; m/s	meters per second
LOS	line of sight	m ²	square meter
LOSAT	line-of-sight antitank	m ³	cubic meter
LOTWG	Lasers and Optics Technology Working Group	MA	mega-ampere
LOVA	low-vulnerability ammunition		

mA	milliampere	MCFC	molten carbonate fuel cell
MA	mobile assistant	MCG	magnetocumulative generator
mA/cm ²	milliamperes per square centimeter	MCH	methylcyclohexane
MAb	monoclonal antibody	MCH	methylcyclohexane
MABS	military application of blast simulation	MCM	mine countermeasure
MAC	message authentication code	MCM	multichip module
MAC	modified auxiliary closure	MCM-C	multichip modules-ceramic
MAE	medium altitude endurance	MCM-C/D	multichip modules-ceramic/ deposited
MAFET	Microwave and Analog Front-End Technology	MCM-D	multichip modules-deposited
MAGIC	Multimission Advanced Ground Intelligent Control	MCM-L	multichip modules-laminated
MAGLEV	magnetic levitated	MCM-L/D	multichip modules-laminated/ deposited
MAGT	MOS-assisted gate thyristor	MCNC	Microelectronic Center of North Carolina (University)
MAJCOM	Major Command (U.S. Air Force)	MCP	massively concurrent processing
MALDI	matrix-assisted laser desorption ionization	MCS	modular charge system
MAN	metropolitan area network	MCT	mercury cadmium telluride
MANPADS	Man-Portable Air Defense System	MCT	Militarily Critical Technologies
MAP	Microwave Anisotropy Probe	MCT	MOS-controlled thyristor
MAPO	tris-1-(2-methyl)aziridinyl phosphine oxide	MCTL	Militarily Critical Technologies List
MAPS	Millimeter Wave Analysis of Passive Signature	MCTP	Militarily Critical Technologies Program
MAV	micro air vehicle	MCXO	microcomputer-compensated oscillator
MAXRD	impedance matched X-ray diode	MDA	Missile Defense Agency
MBB	Messerschmitt-Bolkow-Blohm (Germany)	MDP	multidisciplinary design optimization
MBBAY	a specific X-ray blowoff code	MDS	magneto-dynamic storage
MBCS	Meteor Burst Communications System	MEA	More Electric Aircraft
MBE	molecular beam epitaxy	MED	magneto-electric dynamic
MBG	multiband gap	MEDAL	Mine Warfare Environmental Decision Aids Library
Mbit/sec	megabits/second	MEDEVAC	medical evacuation
Mbps	megabytes per second	megarad(Si)	million rads (in silicon)
MBT	main battle tank	MEL	medium-energy laser
Mbytes	megabytes	MEL-ARI	Microelectronics Advanced Research Initiative
MC	molten carbonate	MEM	microelectromechanical
MC-1	chemical bomb	MEMS	microelectromechanical systems
MCA	multi-chip assembly	MEO	medium-Earth Orbit
MCAGCC	Marine Corps Air Ground Combat Center	MEO	middle Earth orbit

MEOMS	micro-electrooptical-mechanical systems	MILSTAR	military, strategic, tactical, and relay (satellite)
MER	message error rate	MIL-STD	Military Standard
MESA	microsystems and engineering science applications	MIMP	Mesoscale Interface Mapping Project
MESMA	Module d'Énergie Sous-Marin Autonome	min	minutes
Met	meteorology	MIPS	million instructions per second
MET	molecular electronic technology	MIPS	multimission image processing subsystem
Methyl	bis(2-methylaziridinyl)methylamino	MIRV	multiple independently targetable reentry vehicles
METWG	Biomedical Technology Working Group	MIS	management information system
MeV	million electron volts	MIT	Massachusetts Institute of Technology
MFC	magnetic field compression	MITI	Ministry of International Trade and Industry (Japan)
MFCG	magnetic flux compression generator	MITI	Ministry of International Trade and Industry
MFL	multiple-folded laser	MJ	megajoule
MFSW	medium-frequency sky wave	mJ	millijoule
MFS3	multifunction staring sensor suite	ml	milliliter
MFTWG	Manufacturing and Fabrication Technology Working Group	ML	Munitions List (Wassenaar Arrangement)
Mg	magnesium	MLC	Military Load Class
mg	milligram	MLI	midlife improvement
mg/cc	milligrams per cubic centimeter	MLIS	molecular laser isotope separation
mg/cm ²	milligrams per square centimeter	MLRS	multiple launch rocket system
MHD	magnetohydrodynamic	MLS	microwave landing system
MHD-EMP	magnetohydrodynamic electromagnetic pulse	mm	millimeter
MHPCC	Maui High Performance Computing Center	mm ²	square millimeter
MHz	megahertz	MMC	metal matrix composite
MIB	management information base	MMD	mass medium diameter
MIC	microwave integrated circuit	MMH	monomethyl hydrazine
MICLIC	mine clearing line charge	MMIC	microwave/millimeter-wave monolithic integrated circuit
MICOM	U. S. Army Missile Command	MMIC	miniaturized monolithic integrated circuit
MICV	mechanized infantry combat vehicle	MMIC	monolithic microwave integrated circuit
MIEM	Master Information Exchange MOU (U.S.-UK)	mmIC	millimeter-wave IC
mil	one one-thousandth of an inch	MMM	Mesoscale and Microscale Meteorology (Division of NCAR)
MILO	magnetic insulated line oscillator	MMMW	monolithic microwave millimeter wave
MILSATCOM	Military Satellite Communications		
MILSPEC	military specification		

MMST	Microelectronics Manufacturing Science and Technology	MPT	Ministry of Posts and Telecommunications (Japan)
MMT	Methods of Manufacturing Technologies	MPTB	microelectronics and photonics testbed
mmw	millimeter wave	MPTWG	Materials and Processing Technology Working Group
MMW	multi-megawatt	MPU	microprocessor unit
MMWTIS	millimeter wave targeting and imaging system	MR	magnetoresistive
MN	mega-newton	mrad	milliradians
MNS	mine neutralization system	Mrad(Si)	million rads (in silicon)
MOCVD	metallo organic chemical vapor deposition	mrem	millirem
MOCVD	metal oxide chemical vapor deposition	MRI	magnetic resonance imaging
MoD	Ministry of Defence (United Kingdom)	MRL	multiple rocket launcher
MOD	means of delivery (of WMD)	MRMS	Millimeter Wave Reflectivity Measurement System
Modem	modulator/demodulator	mRNA	messenger ribonucleic acid
MOE	micro-optical element	MS	marine systems
MOEMS	micro-optics-electromechanical system	MS	mass spectrometry
MOLLE	modular lightweight load-carrying equipment	ms	millisecond
MOO	MUD, object-oriented	MSCM	military systems, components, and materials
MOOTW	military operations other than war	MSE	mobile subscriber equipment
MOPP	mission-oriented protective posture	msec (ms)	millisecond
MOPS	million operations per second	MSFC	Marshall Space Flight Center (NASA)
MOS	metal-oxide semiconductor	MSIMD	multiple single instruction multiple data
MOSFET	metal-oxide semiconductor field-effect transistor	MSIS	Multi-Sensor Integration System
MOTS	micro-optical table systems	MSSS	Maui Space Surveillance Site (Air Force)
Mots	modified off-the-shelf	MSTAR	moving and stationary target acquisition radar
MOU	Memorandum of Understanding	MSTWG	Marine Systems Technology Working Group
MOUT	military operations in urban terrain	MSX	midcourse space experiment
MOVPE	metal organic vapor phase epitaxy	Mt	megaton
MPa	megapascals	MT	metric ton
MPEG	Moving Pictures Expert Group	MTBF	mean time between failures
MPF	multipurpose fuze	MTBOH	mean time between overhaul
mph	miles per hour	MTCR	Missile Technology Control Regime
MPI	mean point of impact	MTF	modulation transfer function
MPM	microwave power modules	MTI	moving target indication
MPNTP	Master Positioning, Navigation, and Timing Plan		

MTO	Microsystems Technology Office (DARPA)	NASA	National Aeronautics and Space Administration
Mtops	million theoretical operations per second	NASDA	National Space and Development Agency (Japan)
MTSAT	multifunctional transport satellite	NATIBO	North American Technology and Industrial Base Organization
MTTF	mean time to failure	NATO	North Atlantic Treaty Organization
MUD	multiple user dimensions	NAV	navigation
MURAT	Munitions à Risques Atenues	NAVSAT	navigation satellite
MV	megavolt	NAVSEA	Naval Sea Systems Command
MV	muzzle velocity	NAWC	Naval Air Warfare Center
MV/cm	megavolts per centimeter	NB	narrow band
MV/ns	megavolts per nanosecond	NBC	nuclear, biological, and chemical
MVA	megavolt-amperes	N/cm ²	newtons per square centimeter
MVRS	muzzle velocity radar system	NC	numerically controlled
MW	megawatt	NCA	national command authorities
mW	milliwatt	NCAC	National Crash Analysis Center (George Washington University)
mW/cm ²	milliwatts per centimeter squared	NCAR	National Center for Atmospheric Research
MWCG	multiwave Cerenkov generator	NCARAI	Navy Center for Applied Research in Artificial Intelligence
MWh/kg	megawatt hours per kilogram	NCIC	National Center for Intelligent Computing
MWIR	medium wavelength infrared	NCIS	National Clinical Information System
MWIR	midwave infrared	NCMS	National Center for Manufacturing Science
MX	Mexico	NCP	network control point
n	nano	NCW	network-centric warfare
N	newton	Nd	neodymium
N D	n-dimensional	Nd:YAG	neodymium:yttrium aluminum garnet
N.B.	nota bene	NDE	nondestructive evaluation
N/m ²	newtons per square meter	NDGPS	National Differential Global Positioning System
NA	numerical aperture	NDI	nondestructive inspection
Na	sodium	NDRE	Norwegian Defense Research Establishment
NACA	National Advisory Committee on Aeronautics	NDT	nondestructive test
NACC	North Atlantic Cooperation Council	NDU	non-digitized unit
NAD	Navy Area TBMD	NDUL	Nuclear Dual-Use List (NSG)
NAE	National Academy of Engineering	NE	network element
NAL	National Aerospace Laboratory (Japan)		
NAMRU	Naval Medical Research Unit		
NAS	National Academy of Sciences		
NAS	network attached storage		

NE	northeast	nm	nanometer
NEDO	New Energy and Industrial Technology Development Organization	NM	network management
NELS	Northern European LORAN System	NMD	National Missile Defense
NEM	nanoelectromechanical	nmi	nautical mile
NEMO	Naval EarthMap Observer	NMIH	nickel metal hydride
NEMP	nuclear electromagnetic pulse	NMMO	3-nitratomethyl-3-methyloxetane
NEMS	nanoelectromechanical systems	NMP	New Millenium Program
NEP	noise equivalent power	nmph	nautical miles per hour
NEPE	nitrate ester plasticized polyether	NMR	nuclear magnetic resonance
NETD	noise-equivalent temperature difference	NMRCI	National Microelectronics Research Centre, Ireland
NF	New Forum	NMRS	Near-Term Mine Reconnaissance System
NG	nitroglycerin	NNI	National Nanotechnology Initiative
NGIC	National Ground Intelligence Center	NNWS	non-nuclear weapons states
NGL	next-generation lithography	NO	Naval Operations
nH/A	nanohenries per ampere	NO	Norway
nHz	nanohertz	NOAA	National Oceanic and Atmospheric Administration
Ni	nickel	NOC	network operations center
NIH	National Institutes of Health	NOCINCO	China North Chemical Industries Corporation
NIIRS	National Imagery Interpretability Rating Scale	NOEL	Nonlinear Electronics Laboratory
NIJ	National Institute of Justice	NOL	Naval Ordnance Laboratory
NIMA	National Imagery and Mapping Agency	NONA	nonanitroterphenyl
NIMH	nickel metal hydride	NOS	network operations centers
NIMIC	NATO Insensitive Munitions Information Center	NOSC	Naval Ocean Systems Center
NIR	near infrared	NOx	oxides of nitrogen
NIRIM	National Institute for Research in Inorganic Materials	NOx	nitrogen oxide
NIST	National Institute of Standards and Technology	NP	neutral particle
NJIT	New Jersey Institute of Technology	NP	nonproliferation
nK	nanokelvin	NPB	neutral particle beam
NL	Netherlands	NPT	Nuclear Non-Proliferation Treaty
NLO	nonlinear optical	NQ	nitroguanidine
NLR	National Aerospace Laboratory (Netherlands)	NQR	nuclear quadrupole resonance
NLW	nonlethal weapon	NRAC	Naval Research Advisory Committee
		NRC	National Research Council
		NRC	National Response Center
		NRC	Nuclear Regulatory Commission
		NRDEC	Natick Research, Development and Engineering Center

NRL	Naval Research Laboratory	NWES	nuclear weapons effects simulation
NRO	National Reconnaissance Office	NWS	nuclear weapons state
NRT	near real time	NZ	New Zealand
NS	nuclear systems		
NS&E	nanoscale science and engineering	O&M	operation and maintenance
NSA	National Security Agency	O&S	operation and support
NSAN	nonstabilized ammonium nitrate	O ² -I	oxygen iodine
NSC	Natick Soldier Center (U.S. Army)	OASDSOLIC	Office of the Assistant Secretary of Defense for Special Operations and Low-Intensity Conflict
nsec (ns)	nanosecond		
NSF	National Science Foundation	OAV	organic air vehicle
NSG	Nuclear Suppliers Group	OC	optical carrier
NSIAD	National Security and International Affairs Division	OCAR	Office of Crash Avoidance Research
NSLS	National Synchrotron Light Source	OCCM	optical counter-countermeasures
NSOM	nearfield optical scanning microscopy	OCM	optical countermeasures
NSRC	Naval Surface Research Center	OCR	organic cooled reactor
NSTC	National Science and Technology Council	Octal	aluminum octadecanoate
NSTWG	Nuclear Systems Technology Working Group	Octal	HMX/TNT mixtures
NSWC	Naval Surface Warfare Center	ODP	oxygen depleting potential
nT	nanotesla	OE	opto-electronics
NTI/O	nontraditional input/output	OEIC	optoelectric integrated circuit
NTL	Nuclear Trigger List (supplement of NSG)	OFHC	oxygen-free high conductivity
NTO	nitrogen tetroxide	OI	optical interconnection
NTO	3-nitro-1,2,4-triazol-5-one	OICETS	Optical Inter-orbit Communications Engineering Test Satellite
NTRS	National Technology Roadmap for Semiconductors	OJT	on-the-job training
NTTC	National Technology Transfer Center (NASA)	OLAP	on-line analytical processing
NTW	Navy Theater Wide	OLE	object linking and embedding
NUDET	nuclear denotation	OLETC	Office of Law Enforcement Technology Commercialization
NUST	National University of Sciences and Technology (China)	OLTP	on-line transaction processing
NUWC	Naval Undersea Warfare Center	OMV	orbit maneuvering vehicles
NV	night vision	ONERA	Office National d'Études et de Recherches Aérospatiale
NVG	night vision goggles	ONR	Office of Naval Research
NVS	night vision system	ONTA	3-nitro-1,2,4-triazol-5-one
NWC	Naval Weapons Center	OODA	observe-orient-decide-act
NWE	nuclear weapons effects	OOT	object-oriented technologies
		OOTW	operations other than war
		OPC	optical proximity correction
		OPO	optical parametric oscillator

OPSEC	operations security	PCDE	polycyanodifluoroamino-ethyleneoxide
ORASIS	Optical Real-Time Adaptive Signature Identification System	pCLC	polymeric cholesteric liquid crystal
ORD	operational requirements document	PCMCIA	Personal Computer Memory Card International Association
ORNL	Oak Ridge National Laboratory	PCR	polymerase chain reaction
ORU	operational resource unit	PCRC	photochemical reaction system
OSD	Office of the Secretary of Defense	PCS	personal communications system
OSHA	Occupational Safety and Health Administration	PCSS	photoconductive solid-state switching
OSI	open systems interconnection	PD	photo detectors
OSL	optically stimulated luminescence	PDA	pulsed disk alternator
OSP	Orbital/Sub-Orbital Program	PDE	pulse-detonation engine
OTH	over the horizon	PDMS	polydimethylsiloxane
OTM	on the move	PE	piezoelectric
OTS	off the shelf	PEBB	power electronic building block
OTV	orbital transfer vehicle	PEFC	polymer electrolyte fuel cell
P	phosphide	PEFC	proton exchange fuel cell polymer electrolyte fuel cell
Pa	pascal	PEIP	programmable embeddable INFOSEC product
PA	phosphoric acid	PEK	polyether ketone
Pa/s	pascals per second	PEM	proton exchange membrane
PAC-3	Patriot Advanced Capability-3	PEMFC	proton exchange membrane fuel cell
PAFC	phosphoric acid fuel cell	PEMS	pico-electromechanical systems
PAHO	Pan-American Health Organization	PET	positron emission tomography
PAI	pathogenicity island	PET	pulsed electrothermal
PALs	permissive action links	PETN	pentaerythritol tetranitrate
PAM	penetration-augmented munition	PEX	paste extrudable explosive
PAR	precision approach radar	PFN	pulse-forming network
PB	particle beam	PFPAE	perfluorinated polyalkyl ether
PBAA	polybutadiene-acrylic acid	PGM	precision-guided munition
PBAN	polybutadiene-acrylic acid-acrylonitrile	PGN	polyglycidyl nitrate
PbS	lead sulphide	PGU	power-generation unit
PbSe	lead selenide	PH	Philippines
PbSnTe	lead tin telluride	PHLASH	Phone Home Link for Autonomous Spacecraft Handling
PBV	post-boost vehicle	PHM	Prognostics and Health Management
PBW	power by wire	PIN	personal identification number
PBX	plastic-bonded explosive	PIN	positive-intrinsic-negative diode
PC	personal computer		
PCB	printed circuit board		

PIO	pilot-induced oscillation	PRPB	Propulsion Directorate/Battery Branch
PIR	passive infrared	PRS	plasma radiation source
PIV	Particle-Imaging Velocimetry	ps	picosecond
PK	Pakistan	PSA	pressure swing absorption
PKI	public key infrastructure	PSAC	performance-seeking aircraft control
PL	Poland	PSAM	phase-stabilized ammonium nitrate
PLGR	Precision Lightweight GPS Receiver	PSD	power spectral density
PM	permanent magnet	psf	pounds per square foot
PM	phase modulation	psi	pounds per square inch
PM	photomultiplier	psia	pounds per square inch absolute
PM	Program Manager	psig	pounds per square inch gauge
PMC	polymer matrix composite	PSM	phase-shifting masks
PMT	photomultiplier tube	PSO	peace support operation
PNT	positioning, navigation, and time	PSP	plasma separation process
PNTP	precision network time protocol	PSVN	public switched voice networks
PNTWG	Positioning, Navigation, and Time Technology Working Group	PT	Portugal
POE	point of entry	PT&F	precise time and frequency
POF	plastic optical fibers	PTI	precision targeting identification
poly-GLYN	poly(nitratromethyloxirane)	PTR	photo-thermo-refractive
POS/NAV	position/navigation	PtSi	platinum silicide
POSITIME	position and time	PTT	postal, telephone, and telegraph
POSTECH	Pohang University of Science and Technology (South Korea)	PTTI	precise time and time intervals
POTS	plain ordinary telephone system	Pu	plutonium
ppb	parts per billion	PUREX	plutonium uranium recovery by extraction
ppm	parts per million	PV	photovoltaic
PPM	proton precession magnetometer	PV/W	pressure-volume/weight
PPS	precise positioning service	PVD	physical vapor deposition
pps	pulses per second	PVF ₂	polyvinylidene fluoride
ppt	parts per trillion	PVP	polyvinylpyrrolidone
PPT	pulsed plasma thruster	PW	penetrating weapon
PRBG	pseudo-random bit generator	PWM	pulse width modulation
PRC	People's Republic of China	PWR	pressurized water reactor
PRC	photochemical reaction center	PWSC	preferred weapon system concept
PRCS	photochemical reaction center synthesis/structure	PYX	picrylamino-dinitropyridine
PRD	pinch reflex diode	PZT	lead zirconate titanate
PRF	pulse repetition frequency	Q	a figure of merit for a resonant circuit
PROM	programmable read-only memory	Q&A	question and answer

QA/QC	quality assurance/quality control	RCRA	Resource Conservation and Recovery Act
QAM	quadrature amplitude modulation	RCS	radar cross section
QC	quality control	RD&E	research, development, and engineering
QD	quantum dot	RDA	representational difference analyses
QED	quantum electrodynamics	RDEC	Research, Development, and Engineering Center
QIP	quantum information processing	RDF	Rapid Deployment Force
QIPC	quantum information processing/communication	RDG	relativistic diffraction generator
QNOS	quantum nano-optics of semiconductors	RDT&E	research, development, test, and evaluation
QW	quantum well	RDX	cyclotri-methylenetrinitramine
QWIP	quantum well infrared photodetector	RESTORE	Reconfigurable Systems for Tailless Fighter Aircraft
R	range	RET	resolution enhancement techniques
R&D	research and development	REVCON	Revolutionary Concepts (NASA project)
R/W	read/write	RF, rf	radio frequency
rad hard	radiation hardened	rf/mmW	Radio Frequency/Millimeter Wave (Facility)
rad(Si)	radiation absorbed dose (in silicon)	RFC	request for comments
rad(Si)/sec	rads (si) per second	RFI	radio frequency interference
RADAR	radio detecting and ranging	RFID	radio-frequency identification
rads	radiation absorbed dose	RFQ	radio frequency quadruple
RADX	cyclotri-methylenetrinitramine	RHA	rolled homogeneous armor
RAID	random array of independent devices	RIE	reactive ion etching
RAID	rapid assessment and initial detection	RIMMP	radar instrument for measurement of land vehicle movement parameters
RAID	redundant array of independent disks	RISC	reduced instruction set computers
RaLa	radioactive lanthanum	RKA	relativistic klystron amplifier
RAM	radar absorbing materials	RKA	Russian Space Agency
RAM	random access memory	RLG	ring laser gyroscope
RAMICS	rapid airborne mine clearance system	RLV	reusable launch vehicle
RAP	rocket-assisted projectile	RMP	reprogrammable microprocessor
RAS	Russian Academy of Sciences	RMS	remote minehunting system
RASER	Research and Seeker Emulation Radar	rms	root mean square
RBG	random bit generation	RNA	ribonucleic acid
RBLOS	regional beyond-line-of-sight	RO	reverse osmosis
RBMK	(Russian) high-power pressure-tube reactor	RO	Romania
RC	resistance-capacitance	ROC	receiver operating characteristic
RCA	Radar for Collision Avoidance	ROE	rules of engagement
RCM	reciprocating chemical muscle		

ROIC	readout integrated circuit	SA/CID	situational awareness/combat identification
ROM	read-only memory	SAA	South Atlantaic Anomaly
ROV	remotely operated vehicles	SABER	situational awareness beacon with reply
RPG	rocket-propelled grenade	SABRE	shallow water assault breaching
RPM	rapid prototype manufacturing	SACLOS	semi-automatic command to line of sight
RPM, rpm	revolutions per minute	SACMA	Suppliers of Advanced Composite Materials Association
RPV	remotely piloted vehicle	SADARM	sense and destroy armor
RSC	Rocket Space Corporation (Russia)	SADL FAC	situational awareness data link forward air controller
RSCAAL	remote sensing chemical agent alarm	SAE	Society of Automotive Engineers
RSMD	radar sensor for maintaining the distance	SAF	safing, arming, and fuzing
RSST	rapid synthesis and simulation tool	SAFF	safing, arming, fuzing, and firing
RSTA	reconnaissance, surveillance, and target acquisition	SAFOR	semi-automated forces
RSVP	reduced ship's crew by virtual presence	SAM	self-assembling membrane
RTD	resonant tunneling diodes	SAM	surface-to-air missile
RTG	radioisotope thermoelectric generators	SAMPEX	Solar Anomalous and Magneto-spheric Particle Explorer
RTI	run-time infrastructure	SAN	storage area network
RTK	real-time kinematic	SAR	search and rescue
RTTY	radio teletype	SAR	synthetic aperture radar
RU	Russia	SAS	Survivable Adaptive System
RV	reentry vehicle	SATCOM	communication satellite
RV	remote vehicles	SAW	surface acoustic wave
RW	rotary wing	Sb	antimony (stibium)
RWC	real-world computing	SBCCOM	U.S. Army Soldier and Biological Chemical Command
s	second	SBEON	space-based electro-optical network
S	siemen (unit of electrical conductivity)	SBIR	Small Business Innovation Research
S&H	survivability and hardening	SBIR	small business innovative research
S&R	search and rescue	SBIRS	Space-Based Infrared System
S&T	science and technology	SBIRS-Low	Space-Based Infrared System-Low
S&TW	surveillance and threat warning	SBL	space-based laser
S/A	selective availability	SBR	space-based radar
S/cm	siemens per centimeter	SBV	space-based visible
S/m	siemens per meter	SC	single crystal
S/N	signal to noise (ratio)	SCADA	supervisory control and data acquisition system
SA	Saudi Arabia		
SA	situational awareness		

SCALPEL	scattering with angular limitation projection electron-beam lithography	SELEX	systemic evolution of ligands by exponential enrichment
SCDE	simplified collective detection equipment	SELT	sheet-explosive loading technique
SCGT	simple-cycle gas turbine	SEM	scanning electronic microscope
SCM	scanning capacitance microscopy	SEMI	Semiconductor Equipment and Materials International
SCM	systems, components, and materials	SEP	Société Européenne de Propulsion
SCO	split cavity oscillator	SEP	spherical error probable
SCPE	simplified collective protection equipment	Sep	system enhancement package
SCPS	Space Communication Protocol Standard	SES	surface effect ships
SCR	silicon controlled rectifier	SET	single electron tunneling
Scramjet	supersonic combustion ramjet	SET	single event transients
SCSI	small computer system interface	SET	synchronizing enabling technologies
SCSI	Society for Computer Simulation International	SETWG	Sensors Technology Working Group
SCTWG	Signature Control Technology Working Group	SEU	single-event upset
SCUBA	self-contained underwater breathing apparatus	SEV	surface-effect vehicles
SCUD	western name for early Soviet missile system	SF	superfluorescence
SDH	synchronous digital hierarchy	SFAP	space-frequency adaptive processor
SDI	strategic defense initiative	SFC	specific fuel consumption
SDIO	Strategic Defense Initiative Organization	SFODB	Spaceborne Fiber-Optic Data Bus
SDN	software defined network	SG	Singapore
SDO	State Design Office (Ukraine)	SGEMP	system-generated electromagnetic pulse
SDT	spin-dependent tunneling	SHA	secure hash algorithm
SE	spontaneous emission	SHF	super-high frequency
SE	static electric	SHORAD	Short-Range Air Defence
SE	Sweden	SHPL	super high power laser
SEE	single event effect	Si	silicon
SE&I	systems engineering and integration	SI	Système Internationale d'Unités (The International System of Units)
SEA	statistical energy analysis	SIA	Semiconductor Industry Association
sec	second	SiC	silicon carbide
SECOMS	satellite EHF communications for mobile multimedia services	SiGe	silicon germanium
SEFI	single-event fault-interrupt	SiGeB	silicon-germanium boron
		SiGeC	silicon-germanium carbon
		SIGINT	signals intelligence
		SILEX	Semiconductor Laser Intersatellite Link Experiment
		SIMD	single instruction, multiple data

SIMOX	separation by the implantation of oxygen	SN	sensors and navigation
SiN	silicon nitride	SNL	Sandia National Laboratory
SINCGARS	single-channel ground and airborne radio system	SNM	special nuclear material
SINS	ships inertial navigation systems	SNMP	simple network management protocol
SiO ₂	silicon dioxide	SNPE	Société Nationale des Poudres et Explosifs
SiOC	silicon oxycarbide	SNR	signal-to-noise ratio
SIP	SINCGARS Improvement Program	SO	solid oxide
SIPE	soldier integrated protective ensemble	SOA	safe operating area
SIS	signal in space	SOF	Special Operations Force
SIT	silicon intensified target	SOFC	solid oxide fuel cell
SK	Slovakia	SOFRADIR	Société Française de Détecteurs Infrarouge
SKIPPER	a specific lagrangian ground motion code	SOI	silicon on insulator
SLAC	Stanford Linear Accelerator	SONET	synchronous optical network
SLAM	selectable lightweight attack munition	SOS	silicon-on-sapphire
SLAM	standoff land attack missile	SOTV	solar orbit transfer vehicle
SLAR	side-looking airborne radar	SP	self propelled
SLM	spatial light modulator	SP	solid propellant
SLOC	sea line of communication	SP	Spain [ES - (ISO)]
SLR	satellite laser ranging	SPAWAR	Space and Naval Warfare Systems Command
SLS	side-looking sonar	SPD	severe plastic deformation
SLUFAE	surface-launched fuel air explosive	SPDT	single point diamond turning
SLV	space-launch vehicle	SPE	synchronous payload envelope
SMA	shape memory alloy	SPECT	single photon emission computerized tomography
SMART	Smart Materials Actuated Rotor Technology	SPEEDES	synchronous parallel environment for emulation and discrete-event simulation
SMC	Space and Missile Systems Center (U.S. Air Force)	SPES	synchronous payload envelopes
SMC/T&E	Space and Missile Systems Center Test and Evaluation Directorate	SPF/DB	superplastic forming/diffusion bonding
SMI	structure of management information	SPFC	solid polymer electrolyte fuel cell
SMNP	simple management network protocol	SpG	specific gravity
SMP	shape memory polymer	SPH	smoothed particle hydrodynamics
SMP	symmetrical multiprocessor	SPLAT	spray lead at target
SMR	specialized mobile radio	SPM	scanning probe microscopy
SMS	system management system	SPO	System Program Office
		SPOD	seaport of debarkation
		SPOT	Satellite Pour l'Observation de la Terre

SPS	Standard Positioning Service	STFD	spatial time-frequency distribution
SQC	statistical quality control	STIO	Space Technology Integration Office
SQUID	superconductive quantum interference device	STM	scanning tunneling microscope
SR	Slovak Republic	STM	synchronous transport module
SR-12	ammonium dinitraminide	STO	science and technology objective
SRA	shop-replaceable assembly	STO	scientific technology objective
SRAM	short-range attack missile	STOL	short takeoff and landing
SRAM	static random access memory	STOM	ship-to-objective maneuver
SRBM	short-range ballistic missile	STOW	synthetic theater of war
SREMP	source region electromagnetic pulse	STP	solar thermal propulsion
SRS	stimulated Raman scattering	STP	standard temperature and pressure
SRTM	Shuttle Radar Topography Mission	STRICOM	U.S. Army Stimulation, Training, and Instrumentation Command
SS	signaling system	STS	Satellite Tracking System
SS	space system	STS	stockpile-to-target sequence
SSA	Ship Support Agency	STS	synchronous transport signal
SSA	solid-state amplifier	STTR	small business technology transfer program
SSB	conventional-powered ballistic missile submarine	STW	Surveillance and Threat Warning
SSB	single sideband	SUNY	State University of New York
SSBN	submarine ballistic missile nuclear	SURTASS	surveillance towed array sensor systems
SSDC	Space and Strategic Defense Command (U.S. Army)	SUSOPS	sustained operations
SSG	conventional-powered guided missile submarine	SWAS	small water plane area ship
SSGN	nuclear-powered guided missile submarine	SWATH	small waterplane area twin hull
SSK	conventional-powered attack submarine	SWIR	short wavelength infrared
SSM	semi-solid metalworking	SwRI	Southwest Research Institute
SSME	Space Shuttle Manned Explorer	SWS	subwavelength structured
SSN	submarine, nuclear attack	SY	Syria
SSNS	solid-state navigation system	T	tesla
SSOP	shrink small outline package	t	ton
SSR	secondary surveillance radar	T	tritium
SST	supersonic transport	T&E	test and evaluation
SSTO	single-stage-to-orbit	T, P, and I	test, production, and inspection
SSTWG	Space Systems Technology Working Group	T/P	TOPEX/POSEIDON
STANAG	standardization agreement	T/R	transmit and receive
STAP	space-time adaptive processor; space-time adaptive processing	T/T	transceiver
		T/W	thrust-to-weight (ratio)
		TacMedCS	Tactical Medical Coordination System

TACMS	Tactical Missile System	TDM	time division multiplexing
TACOM	Tank-Automotive and Armaments Command (U.S. Army)	TDMA	time division multiple access
TADIL	tactical data information link	TDOA	time difference of arrival
TADMUS	tactical decision-making under stress	TDR	Technical Research and Development Institute (Japan)
TAGN	triaminoguanidinenitrate	TDRSS	Tracking and Data Relay Satellite System
TAIW	tetraacetyldibenzylhexaazaiso-wurtzitane	Te	telluride
TAPS	tunnel and pipe seal	TE	thermoelectric
TARDEC	Tank Automotive Research, Development, and Engineering Command	TE	transverse electric
TARFS	three axis of rotation flight simulator	TEGDN	triethyleneglycoldinitrate
TAS	thallium arsenic selenide	TEL	transporter/erector launcher
TASER	Tom A. Swift's Electric Rifle	TEM	transmission electron microscopy
TAT	1,3,5,7-tetraacetyl-1,3,5,7-tetraazacyclooctane	TEM	transverse electromagnetic
TATB	triaminotrinitrobenzene (high-temperature explosive)	TEMPEST	transient electromagnetic pulse emanations standard
TAV	transatmospheric vehicle	TEPAN	tetraethylenepentamine-acrylonitrile
TB	tuberculosis	TEPANOL	tetraethylenepentamine-acrylonitrileglycidol
TBM	theater ballistic missile	TE-PVD	thermal evaporation—physical vapor deposition
TBMD	theater ballistic missile defense	TERCOM	terrain contour matching
TBN	tactical ballistic missile	TERM-KE	tank extended range munition-kinetic energy
TBP	tri-n-butyl-phosphate	TERPROM	terrain profile matchup
T _c	critical temperature	TES	Tactical Exploitation System
T _c	superconducting temperature (high T _c = 77 K, low T _c = 4 K)	Tetryl	trinitro-phenylmethylnitramine
T [°]	transition temperatures	TEU	technical escort unit
T _c	transmit clock/telemetry combiner	TeV	tera electron volt
TCM	trajectory correctable munition	TFC	transverse field compensation
TCP/IP	transmission control protocol/internet protocol	TFT	thin-film transistor
TCSEC	trusted computer system evaluation criteria	T _g	glass transition temperature
TCT	time-critical targeting	TGSM	terminally guided submunition
TCXO	temperature-compensated crystal oscillator	TH	Thailand
TDA	time to double amplitude	THAAD	Theater High-Altitude Area Defense
TDD	target detection device	ThAD	tetranitrotetraaradecalin
TDI	time delay and integration	THEL	tactical high-energy laser
		THz	terahertz
		TI	target identification
		TI	thermal imaging
		Ti	titanium
		TID	total incident dose

TIR	total indicated reading	TRACER	Tactical Reconnaissance Armoured Combat Equipment Requirement
TIS	total integrated scattering	TRADOC	U.S. Army Training and Doctrine Command
TIS	trusted information system	TRANET	Transit Network (U.S. Navy)
TLD	thermoluminescent dosimetry	TRANSEC	transmission security
TLE	target location error	TRAPATT	trapped plasma avalanche transit-time triode
TLGC	transfer line gas chromatography	TREE	transient radiation effects on electronics
TM	transverse magnetic	TRIGAT	Tri-lateral Antitank Guided Weapon
TMD	Theater Missile Defense	TRI-TAC	Tri-Services-Tactical Communications
TMN	telecommunication management network	TRMA	traceability, reliability, maintainability, and availability
TMP	trimethylol propane	TRMM	Tropical Rainfall Measuring Mission (NASA satellite)
TMS	thermomechanical shock	TRP	Technology Reinvestment Program
TN	thermonuclear	TSA	temperature swing adsorption
TN	Tunisia	TsAGI	Russian Central Aero- and Hydrodynamic Institute
TNAD	1,4,5,8-tetranitro-1,4,5,8-tetraazadecalin	TSOP	thin small outline package
TNAZ	1,1,3-trinitroazetidine	TSR	thermostructural response
TNEOC	polynitroorthocarbonate	TSS	telecommunications system sector
TNGU	tetranitroglycoluril	TT&C	telemetry tracking and controls
TNO	Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek (The Netherlands Organization for Applied Scientific Research)	TTO	Technology Transition Office
TNO-PML	The Netherlands Organization for Science and Technology-Prins Maurits Laboratory	TTP	tactics, techniques, and procedures
TNPDU	tetranitropropanediurea	TTP	trusted third party
TNT	trinitrotoluene	TUGV	tactical unmanned ground vehicle
TOC	tactical operations center	Tupolev ANTK	A.N. Tupolev Scientific and Technological Aviation Complex
TOPS	total object processing system	TV	television
Torr	pressure equivalent of 1 millimeter of mercury	TVC	thrust vector control
TOW	tube-launched, optically tracked, wire-guided (antitank missile)	TVOPA	(tris vinoxopropane adduct) 1,2,3-tris(1,2-bis(difluoro-amonio)ethoxy)propane
TPB	triphenyl bismuth	TVSS	toroidal volume search sonar
TPL	towed pinger locator	TW	Taiwan
TPP	theoretical peak performance	TW	terawatt
TPV	thermophotovoltaics	TW	throw weight
TR	target recognition	TW	toxin weapon
TR	transition radiation	TWG	Technology Working Group
TR	Turkey	TWT	traveling wave tube

U	uranium	USG	United States Government
UA	Ukraine	USMC	United States Marine Corps
UAV	unmanned aerial vehicle	USML	United States Munition List
UAV	unmanned air vehicle	USN	U.S. Navy
UCAR	University Corporation for Atmospheric Research	USNO	United States Naval Observatory
UCAV	uninhabited combat air vehicle	USSPACECOM	United States Space Command
UDMH	unsymmetrical dimethyl hydrazine	USSR	Union of Soviet Socialist Republics
UEP	underwater electric potential	USW	undersea warfare
UF ₆	uranium hexafluoride	UTC	coordinated universal time
UFCV	ultra-fast closing valve	UTS	ultimate tensile strength
UFPA	Universidade Federal do Pará (Brazil)	UUV	unmanned underwater vehicle
UGS	unattended ground sensors	UV	ultraviolet
UGS	unattended ground systems	UWB	ultra-wideband
UGT	underground testing	UXGA	ultra extended graphics array
UGV	unmanned ground vehicle	UXO	unexploded ordnance
UGWET	underground nuclear weapons effects test	V Agents	nerve agents
UGWET	underground weapons evaluation and testing	V	volt
UHCA	ultrahigh-capacity airliner	V&V	verification and validation
UHF	ultrahigh frequency	V/m	volts per meter
UHV	ultrahigh vacuum	V/sec	volts per second
UK	United Kingdom	V-A	volt-ampere
ULSI	ultra-large-scale integration	VBAD	Vehicle Blinde d'Appui
UN	United Nations	VCN	voice communications network
UNDEX	underwater explosion	VCR	videocassette recorder
uPa/g	micropascal per gram	VCSEL	vertical cavity surface emitting laser
UPC	unit processing code	VDD	voltage drain drain
UPS	uninterruptible or uninterrupted power supply	VE	Venezuela
UPS	uninterruptible power system	VEMASID	vehicle magnetic signature duplicators
USA	U.S. Army	VETRONICS	vehicle electronics
USAF	U.S. Air Force	VHF	very high frequency
USAMRIID	United States Army Medical Research Institute of Infectious Diseases	VHN	Vickers hardness
USARTTC	U.S. Army Redstone Technical Test Center	VHSIC	very high-speed integrated circuit
USASMDC	United States Army Space and Missile Command	VIS	visible
USCG	U.S. Coast Guard	VLCI	vehicle limiting cone index
		VLCT	very large commercial transport
		VLF	very low frequency
		VLSI	very large-scale integrated

VLSI	very large-scale integration	WDM	wavelength division multiplexing
VLWIR	very long-wave infrared	We/kg	watts (electric) per kilogram
VMF	variable message format	WET	weapons effects test
VMS	vehicle management system	WETWG	Weapons Effects and Counter-measures Technology Working Group
VN	Vietnam	WGS	World Geodetic System
VNL	Virtual National Laboratory	w-h/kg	watt-hour per kilogram
VOC	volatile organic compounds	WHO	World Health Organization
VOR	very-high-frequency omni-directional range	Whr/kg	watt-hour per kilogram
VPB	vacuum power booster	Whr/L	watt-hour per liter
VPI	vertical plane imaging	WII	world information infrastructure
VPN	virtual private network	WMD	weapons of mass destruction
VR	virtual reality	WORM	write once/read many
VSAT	very-small-aperture terminal	WP	white phosphorus
VSHORAD	Very Short-Range Air Defence	WPAFB	Wright-Patterson Air Force Base
VTOL	vertical takeoff and landing	WRA	weapon replacement assembly
VTR	video tape recorder	WSMR	White Sands Missile Range
VUV	vacuum ultraviolet	WST	Weapons Systems Technologies
VVA	verification, validation, and authentication	WTA	Worldwide Technology Assessment
VWF	variable message format	WTEC	World Technology Evaluation Center
VX	chemical nerve agent	WWI	World War I
W	watt	WWMCCS	Worldwide Military Command and Control System
W/cm ²	watts per square centimeter	WWW	Worldwide Web
W/in	watts per inch	XO	crystal oscillator
W/kg	watts per kilogram	XPS	photoelectron spectroscopy
W/L	watt per liter	XTE	X-ray Timing Explorer
W/s	watts per second	YAG	yttrium/aluminum garnet
WA Cat	Wassenaar Arrangement—Dual-Use List Category	YBCO	yttrium barium copper oxide
WA ML	Wassenaar Arrangement—Munitions List	YSGG	yttrium scandium gallium garnet
WA	Wassenaar Arrangement	Z	atomic number
WAAS	wide-area augmentation system	ZA	South Africa
WAM	wide-area mine	ZCS	zero current switching
WANS	wide-area network system	ZGP	zinc germanium phosphide
WAS	wide-area search	Zn	zinc
WB	wide band	ZNP	zero-knowledge proofs
WCS	wearable computer system		
WDDI	wire-distributed data interface		

ZnS
ZnSe

zinc sulfide
zinc selenide

ZrF₄
ZVS

zirconium fluoride
zero voltage switching