INDEX TO *DEFENCE SCIENCE JOURNAL*, VOLUME 56, 2006

AUTHOR INDEX

Acharya, Mukti 801
Acharya, R.S. 753
Adhikari, J.S. 769
Agarwal, G.S. 769
Alam, S.I. 769
Ali, Sher 199
Anandavally Ammal, R. 329
Annovazzi, A. 353
Apte, Deepak 825
Arun, M. 147
Arya, P.R. 377
Ashwani 577
Asthana, S.N. 391, 407, 551
Babu, V. 465
Bajgar, Jiri 775
Bala Subramanian, S. 209
Bandera, A 353
Bhargava, L.S. 225
Bhat, K.P.M. 815
Bhattacharya, B. 423
Bhingarkar, Varsha 345
Bhowmick, S.K. 47
Bhuvaneswari, C.M. 309
Bhuyan, M. 507
Biswas, Kanchan 39
Bo, Xu 785
Chakraborthy, T.K. 407
Chandel, Chaman 577
Chandrabhanu, K.S. 383
Chandrasekhar, U. 225
Chaturvedi, Rupa 649
Chaudhary, Vinay 791
Chauhan, R.S. 649
Cheng, Shen 251
Dakshina Murthy, B. 103
Dang Haiyan 295
Das, Sushanta 159
Deb, P.C. 209
Deka, R.K. 477
DeLuca, L.T. 353
Deo, S.S. 339
Dilbaghi, N. 513
Dwarkanath, B.S. 769
Ganju, Ashwagosha 559
Gany, Alon 321
Gautam, Anshoo 531
Gautam, G.K. 377
Girija, G. 451, 679
Goel, Ajay Kumar 495, 513
Goley, V.B.103
Gopalan, Poofa 31
Gore, G.M. 391
Goswami, S. 507
Guhaprasad, N. 103
Gupta, Manoj 309
Gupta, N.K. 841
Gupta, Nandita 665
Gupta, Neena 259
Gusain, H.S. 577
Gutch, P.K. 649
Hareesh Kumar, P.V. 485
Hariharanath, B. 329, 383
Iqbal, M.A. 841
Jagtap, C.B. 209

Jain, Sunil 423
Jaiswal, A.K. 835
Jawale, D.K. 339
Jayakumar, K.K. 399
Jeppu, Y.V. 13
Jiachun, Wang 785
Jiaming, Shi 785
Jiayin, Wang 785
Jiwei, Xu 785
Joshi, A.D. 377
Joshi, P.H. 339
Joshi, S.A. 377
Joshua, John Kulothungan 585
Jun, Daniel 189, 775
Kakade, S.D. 309
Kale, R.K. 599
Kamale, P.J. 407
Kamboj, D.V. 495, 513, 769
Kandagal, S.B. 615
Kannan, G.K. 637
Kapoor, J.C. 637
Kartha, C.B. 329, 383
Karunakar, K. 13
Kashyap, Sudesh K. 679
Khanduri, G.M. 289
Krishnamurthy, V.N. 551
Kuca, Kamil 189, 775
Kulkarni, M.P. 369
Kulkarni, S.B. 733
Kumar, Deepak 437, 809
Kumar, H.H. 269
Kumar, Pradeep 209
Kumari, Babita 199
Kusurkar, R.S. 551
Li, Shufen 543
Liang, Chia-Hao 591
Lin, Ching-Show 591
Liu, Cheng-Yu 129
Liu, Chiun-Chien 129
Maggi, F. 353
Malhotra, Mukesh 259
Malmathanraj, R. 627
Malviya, Vimal 531
Mehilal 423
Mishra, R.N. 437, 809
Mohan Kumar, D. 31
Mohandas, T. 93
Mukundan, T. 399
Mulay, M.P. 423
Muttoo, S.K. 239
Naidu, V.P.S. 451
Naik, S.D. 753
Nair, J.K. 399
Nair, R. Vikraman 31
Narasimhan, V.L. 159
Nath, D.R. 507
Nayak, Vrinda 179
Nazare, A.N. 391
Nibandhe, Reena P. 815
Nishioka, Hajime 179
Pal, D.K. 225
Pal, S.K. 239
Palaiah, R.S. 339
Panchalai, V.N. 485
Pandey, N.D. 93
Pandey, Sateesh N. 721
Pant, Lalit Mohan 559
Panwar, B.S. 289
Pathak, Uma 531
Patocka, Jiri 189, 775
Pavitran, Sapna 209
Phapale, U.G. 369

Pimpale, Sushama S. 715
Polke, B.G. 391
Ponnambalam, P. 279
Prakasan, K. 279
Prasad, R.S. 259
Prasad, Rajendra 5, 61, 81, 87
Prashar, Ankur 577
Radhakrishnan, P. 117
Rajalakshmi, Kavitha 13
Rajendran, A.G. 329, 383
Rajesh, P.K. 279
Rama Murthy, P.B.V. 81
Rama Murty, G. 701
Ramakrishnan, N. 279
Ramana Murthy, Ch.V. 733
Rani Krishnan, K.R. 329
Rao, Sudhakara K. 53
Raol, J.R. 451, 679
Ravi, B. 225
Ravindran, M. 383
Raza, S.K. 531
Reddy, M.C.S. 701
Reddy, T.S. 399
Rekh, Shobha 585
Roy, Kathika 815
Salvi, S.V. 715
Sangawar, S.R. 269
Sanghavi, R.R. 407
Sanilkumar, K.V. 485
Sarkar, Soma 199
Satpute, R.S. 399
Saxena, P.K. 239
Sekar, N.S. 743
Sekhon, G.S. 841
Selvaraj, P. 117
Sen, S.K. 665
Seshagiri Rao, V. 693
Shaikh, M.A.R. 407
Shan, H.S. 93
Shanmugam, A. 585
Sharma, Anesh K. 87
Shekhar, Himanshu 417
Shrivastava, G.P. 569
Singh, A.K. 825
Singh, Amarjit 407
Singh, Gursharan 791
Singh, Haridwar 345
Singh, Lokendra 495, 513, 769
Singh, P.P. 423
Singh, Ram 531
Singh, Seema 531
Singh, T. 801
Sivakumar, R. 465
Somayajulu, M.R. 339, 369, 377
Sonawane, S.H. 391
Soundalgekar, V.M. 477
Sridhar, S. 743
Subha Rani, S. 585
Subith, V.S. 353
Sun, Yunlan 543
Sundararajan, T. 147
Sureshkumar, M.S. 309
Swami, Het Ram 71
Swarge, N.G. 369
Talawar, M.B. 551
Thamarai Selvi, S. 627
Thomas, K.T. 21
Titus, Susan 209
Tuan, Pan-Chio 129
Tulapurkara, E.G. 147
Uma Devi, P. 179
Uma Sankari, S.S. 31

Upadhya, K. Sadananda 103

Valiv, M.H. 339

Varaprasad, R. 693

Venkatraman, Kartik 615

Vijayaraghavan, R. 531

Vishwakarma, J.P. 721

Vyas, S.M. 551

Wei Kezhen 295

Yadav, H.S. 169

Yong, Deng 251

Zhang, Qi 295

Zhongcai, Yuan 785

TITLE INDEX

Aeronautics & Flight Dynamics

3-D MCM Technology for Miniaturisation of an Electronic System, 47

Airworthiness Approval of Design Firms, 39

Algorithm for Pocket Milling using Zig-zag Tool Path, 117

Algorithm of Impact Point Prediction for Intercepting Reentry Vehicles, 129

Analysis of Customer Feedback System for Continual Quality Improvement–A Case Study from Lakshya Experiences, 71

Analysis of Titanium-matrix Orthotropic Cylindrical Shell Subjected to Thermomechanical Loading, 701

Angular Steering for Proportional Navigation-commanded Surface-to-air Guided Missile, 437

Charge Transfer in Light Effect under Visible Radiation in an Ozoniser Discharge, 715

Converging Cylindrical Shock Waves in a Nonideal Gas with an Axial Magnetic Field, 721

Cooling Ability-based Integrated Quality of Laser-drilled Holes, 93

Design Qualification of an External Store for a Fighter Aircraft, 103

Ensuring Software Quality–Experiences of Testing Tejas Airdata Software, 13

Error Model-converted Measurement and Error Model-modified Extended Kalman Filters for Target Tracking, 679

Estimation of Launch and Impact Points of a Flight Trajectory using UD Kalman Filter/Smoother, 451

Numerical Simulations of Flow in a 3-D Supersonic Intake at High Mach Numbers, 465

On the Class of Exact Solutions of an Incompressible Second-order Fluid Flow by Creating Sinusoidal Disturbances, 733

Organising Quality Function in Research and Development, 61

Qualification Methodologies for ICs and MMICs for Aerospace Industry, 87

Quality Experiences in Aerospace Electronic Assembly, 81

Quality Management System for Defence Aeronautical Industry, 21

Quality Management System–Some Reflections, 53

Range Safety Real-time System for Satellite Launch Vehicle Missions–Testing Methodologies, 693

Requirements Analysis Spiral, 5

Software Quality Assurance–Challenges in Launch Vehicle Projects, 31

Applied Physics & Fluid Dynamics

Computation of Flow through an Annular Diffuser and Volute Exhaust, 147

Gravity Modulation Effects on Transient-free Convection Flow Past an Infinite Vertical Isothermal Plate, 477

Shallow Water Internal Waves and Associated Acoustic Intensity Fluctuations, 485

Armaments, Explosives & Propellants

Addition of RDX/HMX on the Ignition Behaviour of Boron-Potassium Nitrate Pyrotechnic Charge, 329

Burn-rate Measurement on Small-scale Rocket Motors, 353

Detonator using Nickel Hydrazine Nitrate as Primary Explosive, 383

Development of Smoke Composition to Disseminate Capsaicinoids in Atmosphere as Sensory Irritant, 369

Effect of Fuel Properties on the Specific Thrust of a Ramjet Engine, 321

Empirical Method for the Prediction of Heat of Formation of Organic High Energy Molecules, 159

Ethylene-propylene Diene Rubber as a Futuristic Elastomer for Insulation of Solid Rocket Motors, 309

GAP-based Enhanced Energy LOVA Gun Propellant, 407

Influence of Cellulosic Binders on Sensitvity and Combustion Behaviour of B-KNO_3 Ignition System, 345

Initiation of Detonation in Explosives by Impact of Projectiles, 169

Luminous Efficient Compositions Based on Epoxy Resin, 339

Optimisation of Kinematics for Tracked Vehicle Hydro Gas Suspension System, 743

Perturbation of Initial Stability of an FSAPDS Projectile, 753

Prediction of Maximum Strain in Finocyl Port Case-bonded Solid Propellants under Pressure Loading, 417

Prediction of Particle Size of Ammonium Perchlorate during Pulverisation, 423

Radiometric Screening of Red Phosphorus Smoke for its Obscuration Characteristics, 377

Some Transition Metal Carbohydrazide Nitrates: Burning Rate Modifiers for Propellants, 391

Synthesis and Characterisation of Bis-(chloromethyl) Oxetane, its Homopolymer and Copolymer with Tetrahydrofuran, 399

Biomedical Sciences

Antioxidant and Radioprotective Effects of Ocimum Flavonoids–Orientin and Vicenin in Escherichia coli , 179

Biological Warfare Agents, 495

Botanicals as Mosquito Larvicides, 507

Botulinum Toxin: Bioterror and Biomedicinal Agent, 189

Effect of Radiofrequency Electromagnetic Field on Human DNA, 199

Flow-cytometric Analysis of Bacillus Anthracis Spores, 769

Microbial Bioremediation of Fuel Oil Hydrocarbons in Marine Environment, 209

Probiotics: Microbial Therapy for Health Modulation, 513

Prophylaxis Against Nerve Agent Intoxications, 775

Respiratory Effects of Amifostine and DRDE-07: Probable Prophylactic Agents of Sulphur Mustard in Rats, 531

Chemical Technology & Propellants

Combustion Characteristics of Coated Nano Aluminum in Composite Propellants, 543

Measurement of Infrared Transmissivity of Smoke Using a Thermal Imager, 785

Synthesis and Characterisation of Diaryl Furoxans, 551

Cold Region Engineering

Application of Neural Networks for Avalanche Forecasting, 559

Percentile Data Analysis of Snowfall in J&K and Saichen Glaciers Region, 569

Quantitative Step-loading Block Test: A Substitute for Loaded-column Test, 577

Structural Measures for Controlling Avalanches in Formation Zone, 791

Computers & Systems Studies

Computer-aided Reverse Engineering for Rapid Replacement of Parts, 225

Construction of Graceful Signed Graphs, 801

Designing Secure and Survivable Stegosystems, 239

Evaluating the Main Battle Tank using Fuzzy Number Arithmetic Operations, 251

Punctured Turbo Codes for Bandwidth-efficient Transmission, 585

Software-based Solution for Analysis and Decoding of FSK-2 Modulated, Baudot-coded Signals, 259

XML-based Web Services Technology to Implement a Prototype Command and Control System, 591

Electronics & Instrumentation

Alumina-based Ceramic Material for High Voltage Ceramic Substrate, 269

Angular Stabilisation on an Unstable Platform, 809

Hardware Implementation of a 16-QAM Modem Using Waveform Switching Technique, 815

Low-current Scanning Tunneling Microscope for Nanoscale Imaging, 599

Modelling and Analysis of Hysteresis in Piezoelectric Actuator, 825

Passive Night Sight using an Image Intensifier Minimum Resolvable Contrast Model, 835

Piezo-actuated Vibration and Flutter Control, 615

Rheological Behaviour of Ceramic Inks for Direct Ceramic Inkjet Printing, 279

Silicon-germanium Single-heterojunction Bipolar Transistor, 289

Solving Battle Management/Command Control and Communication Problem using Modified BIONET, 627

Environmental Safety

Status of Workplace Air Quality at Explosive Material Manufacturing and Handling Units, 637

Materials Science

Polymer-clay Nano Composites, 649

Spheroidisation Treatment for Steels, 665

Thin Aluminium Plates Subjected to Impact by Ogive-nosed Projectiles, 841

Parachutes & Paradropping

Dynamical Analysis of Jettison Piloting for Air Bomb with Bomblets, 295

SUBJECT INDEX

1- chloroacetophenone, 369
16-QAM, 815
8-PSK modulation, 815
Ablation resistance, 309
Acetylcholinesterase, 775
Acoustic intensity fluctuations, 485
Acoustic propagation model, 485
Actuators, 615
Adaptive Kalman filter, 129
Adaptive meshing, 841
Additive white Gaussian noise, 585
Aedes(s) albopictus, 507
Aeromechanical systems, 615
Aerospace industry, 21
Aerospace standards, 21
Air bomb, 295
Air classifier mill, 423
Air cooled components, 93
Air defence, 451
Airdata algorithm, 13
Air-delivered weapon, 295
Airworthiness, 39
Airworthiness certification, 39
Algorithms, 117, 679
Allele length variation, 199
Alloying elements effects, 665
Alumina, 269
Aluminium powder, 543
Amifostine, 531
Ammonium perchlorate, 423
Angular stabilisation, 809
Annular diffuser, 147
Antioxidant effect, 179
Artificial intelligence, 559
Aspect ratio, 841
Autocorrelation, 259
Avalanche, 569
Avalanche forecasting, 559
Avalanche prediction, 559
Avalanche-control avalanche sites, 791
Avalanche-control structures, 791
Average particle size, 423
Axial magnetic field, 721
Bacillus anthracis, 769
Bacterial agents, 495
Bacterial spores, 769
Ballistic behaviour, 353
Ballistic properties, 345
Ballistics, 353
Battle management, 627
BCMO-THF copolymer, 399
Best practices, 13
Binders, 345
Biodefence, 495
Bioemulsifiers, 209
Biological and Toxin Weapons Convention, 495
Biological warfare, 189, 495
Biological warfare agents, 495
Biological weapon, 189
Bioremediation, 209
Bioscavengers, 775
Bioterrorism, 769
Bis- (chloromethyl) oxetane, 399
Bit-substitution, 239
Boron potassium nitrate, 329
Botulinum toxin, 189
Botulism, 189
Bowshock, 465
BTWC *see* Biological and Toxin Weapons Convention
Burn rate, 423

Burn rate modifier, 391
Burn-rate measurement, 353
Calotropis gigantea, 507
Cal-Val, 345
Capsaicinoids, 369
Carbohydrazide complexes, 391
Cartesian coordinate frames, 679
Case-bonded solid propellants, 417
Case-bonded solid rocket motors, 309
Case study, 71
CCW method, 721
Cellulogic binders, 345
Cellulose acetate, 407
Certification, 39
Characterisation, 551
Charge transfer, 715
Cholinesterases, 775
Clostridium botulinum, 189
CMKF, 679
Combustion, 543
Combustion behaviour, 345
Combustion characteristics, 407
Command and control system, 591
Commercial grade steel, 665
Composite propellants, 391, 423, 543
Compositions, 339
Computation, 147
Computer-aided design, 225
Computer model, 147
Conical diffuser, 147
Converging shock waves, 721
Counterparallel guidance law, 129
Cowl shock, 465
CRANE cycle, 5
Cross-country mobility, 743
Culex quinquefasciatus, 507
Customers feedback, 71
Cutoff frequency SiGe technology, 289
Cytoprotective drug, 531
Data reduction , 353
Defect investigation, 71
Defence aeronautical requirements, 21
Defence standards, 21
Deflagration-to-detonation transition, 383
Deformation, 701
Design and fabrication, 39, 103
Design approval, 39
Design approval authority, 39
Design approved firms, 39
Design verification, 87
Detonation, 169
Detonator, 383
DHBT *see* Double-heterojunction bipolar transistor
Diaryl furoxans, 551
Dibenz (b, f)-1,4 oxazepine, 369
Dielectric constant, 269
Dielectric strength, 269
Diffusers, 147
Digital flight control computer software, 13
Digital phase detector, 815
Direct ceramic inkjet printing, 279
Discharge count, 715
Dispersant, 279
DNA typing, 199
Domain wall, 825
Double-base propellants, 391
Double-heterojunction bipolar transistor, 289
DRDE-07, 531
ECMKF, 679
Elasticoviscous fluid, 733
Electromagnetic radiation, 715
Electronic assembly, 81
Electronic systems, 47
Electro-rheological fluids, 615

Electrostrictive materials, 615
EMEKF, 679
Energetic binders, 399
Energetic plasticiser, 407
Energetic polymers, 399
Enthalpy of sublimation, 159
Enthalpy of vapourisation, 159
EPDM, 309
Epoxy resins, 339
Equation of motion, 753
Error-coding schemes, 585
Escherichia coli, 179
Escherichia coli mutants DSH19 and DSH56, 179
Ethylene-propylene diene rubber, 309
Eutectoid steel, 665
Explosives, 169, 637
External store, 103
Extinction characteristics, 785
Eye pieceless stereo zoom microscope, 81
Failure load, 577
Failure mode effects, 53
Failure plane, 577
FFT *see* Fast fourier transform
Fast fourier transform, 259
Fault Tree Analysis, 53
Fighter aircraft, 103
Filler, 399
Filter scheme, 679
Fimbrae, 209
Finite element analysis, 417
Finocyl port propellant configuration, 417
FITC *see* Fluorescein isothiocyanate
Flame retardant, 399
Flat-ended projectiles, 169
Flow cytometry, 769
Flow distortion, 465
Flow penetration distance, 477
Fluid flow, 733
Fluorescein isothiocyanate, 769
Fluorescein Isothiocyanate-labelled antibodies, 769
Flutter control, 615
Flyer plate projectiles, 169
Force constant, 407
Formation zone control structures, 791
Free convection, 477
Free convection flow, 477
Frequency shift keying, 259
FSAPDS projectile, 753
FSK *see* Frequency shift keying
FTA *see* Fault tree analysis
Fuel-air ratio, 321
Fuel efficiency, 321
Fuel-oxidiser mixture, 329
Fuel rich propellant, 321
Fuels, 321
Functional quality, 61
Furoxans, 551
Fuzzy inference system, 627
Fuzzy numbers, 251
Fuzzy sets theory, 251
GAP *see* Glycidyl azide polymer
Gene therapy, 775
Glycidyl azide polymer, 407
Good quality practices, 81
Graceful signed graph, 801
Graphitisation, 665
Gravity modulation, 477
Greater Himalayan range, 569, 577
Green density, 269
Grinding, 423
Ground-troop movement, 801
Group additivity, 159
Gun propellant, 407
Gut health, 513

Gut microflora, 513
Health modulation, 513
Heat of formation, 159
Heat transfer, 733
HEMs *see* High energy materials
HFCI *see* Hot fragment conductive ignition
High energetic molecules, 551
High energy materials, 551
High energy molecule, 159
HMX, 329
Hole quality, 93
Hopping window, 259
Hot fragment conductive ignition, 407
HTPB, 399
Human health, 513
Hydro gas suspension, 743
Hysteresis, 825
Ignition behaviour, 329
Ignition system, 345
IIMRC *see* Image intensifier minimum resolvable contrast
Image intensifier minimum resolvable contrast, 835
Image intensifier tube, 835
Immunofluorescence, 769
Impact point prediction, 129
Impact point, 451
Indian Himalayas, 569
Inertial navigation system, 693
Infrared transmissivity of smoke, 785
Inhibitors, 775
Input estimation, 129
Inspection, 81
Insulation, 309
Intelligence web services, 591
Internal waves, 485
ISO 9000, 53
Johnson-Cook model, 841
Kalman filter, 679, 693
Kalman tracking filter, 451
Kalman tracking flight trajectory, 451
Kinematic linkages, 743
Kinematics, 743
Korakoram range, 569
Lactose-KClO3, 369
Lakshya, 71
Larvicidal activity, 507
Launch point, 451
Launch vehicle, 31
Law of requirements, 5
Ligand fuel, 391
Light combat aircraft, 13
Light-effect pulse height, 715
Limiting oxygen index, 399
Line quality, 61
Linguistic variables, 251
Loaded-column test, 577
LOVA *see* Low vulnerable ammunition
Low-current STM, 599
Low vulnerable ammunition, 407
Luminous efficiency, 339
Magnesium nitrate, 339
Magnesium oxide, 269
Magneto-rheological fluids, 615
Magnetostrictive materials, 615
MAP algorithm, 585
Marine environment, 209
Mass flow rate, 465
Mathematical model, 753, 809
MCM technology *see* Multi Chip Module, 47
Metal casting, 225
Microbial biodegradation, 209
Microbial ecosystem, 513
Microbial mediators, 209
Microbial therapy, 513

Micron-sized aluminium powder, 543
Military modernisation, 591
Milling pocket machining, 117
Miniaturisation, 47
MMIC, 87
Modelling equation, 423
Modified BIONET, 627
Mosquito larvicide, 507
Moving platform, 809
Multi-criteria decision-making, 251
Multi-layer defence, 627
Nano composites, 649
Nano materials, 649
Nanoscale imaging, 599
Nano-sized aluminium powder, 543
Nanostructured materials, 543
Nanotechnology, 543, 599, 649
Nd:YAG laser, 93
Nerve agents, 775
Network simulations, 693
Neural networks, 559
Neuromuscular disorder, 189
Neurotoxin, 189
Nickel base superalloy, 93
Nickel hydrazine nitrate, 383
Night vision, 835
Night-sky illumination, 835
Nitrocellulose, 345
Non ideal gas, 721
Numerical simulations, 465
Obscuration characteristics, 377
Ocimum flavonoids, 179
Ogive-nosed projectiles, 841
Oil dispersion, 209
Oil slick, 209
Oil spill, 209
Oil spill management, 209
Oleoresin, 369
Optimisation, 743
OPTPATH algorithm, 117
Organising criteria, 61
Organophosphates, 775
Orientin, 179
Ortho benzylidene melanonitrile, 369
Orthotropic cylindrical shells, 701
Owl lip, 465
Ozoniser discharge, 715
Packaging technology, 47
Particle size, 269
Particulate matter, 637
Passive damping, 615
Passive night sight, 835
PCB testing, 81
Percussion laser drilling, 93
Perforation, 841
Photopic illumination, 835
Piezoceramics, 615
Piezoelectric, 825
Piper nigrum, 507
Pitch, 809
Plant extract, 507
Platform stabilisation, 809
Pocket milling, 117
Pocketing tool path, 117
Pod, 39, 103
Poisoning, 775
Polar frame, 679
Polar measurements, 679
Polarisation, 825
Pollution, 209
Pollution control, 209
Poly-BCMO, 399
Polymer-clay composites, 649
Polymer-clay nano composites, 649

Polynomial filter, 693
Polyster-based compositions, 339
Porous media, 733
Port pressurisation, 417
Prebiotics, 513
Pretreatment, 775
Primary explosive, 383
Probiotics, 513
Process characterisation, 87
Process simulation, 225
Programmable gain amplifier, 815
Project quality, 61
Projectile impact, 169
Projectile trajectory simulation, 753
Projectiles, 169
Propellant binders, 399
Propellant port, 417
Propellants, 391
Prophylactic agents, 531
Prophylaxis, 775
Proportional navigation guidance, 437
Propulsion unit, 417
Pure grade steel, 665
Pyrotechnic change, 329
Pyrotechnic compositions, 377
Pyrotechnic compostion, 329
QMS *see* Quality management system
QSLTB *see* Qualitative step-loading block test
Qualification testing, 87
Qualification tests, 103
Qualitative step-loading block test, 577
Quality, 71
Quality assurance, 13, 53
Quality function, 61
Quality improvement, 71
Quality management system, 21, 53
Quality system, 53
Radar measurements, 679
Radar tracking data, 591
Radial basis function neural network, 627
Radiofrequency electromagnetic radiation, 199
Radiometric screening, 377
Radioprotection, 179
Radome, 103
Ramjet engine, 321
Ramjet propulsion, 321
Range safety, 693
Rapid prototyping, 225
RAS *see* Requirements analysis spiral
Rate-compatible punctured codes, 585
Rate-compatible punctured turbo codes, 585
RCPC *see* Rate-compatible punctured codes
RDX, 329
Reactive oxygen species, 179
Real-time system, 693
Recursive systematic convolutional encoders, 585
Red pepper, 369
Red phosphorus, 377
Reentry vehicle, 129
Regulatory authority, 21
Regulatory bodies, 39
Reinforcement learning, 627
Reliability, 53, 71
Requirements analysis spiral, 5
Respiratory frequency, 531
Retarded history, 733
Retarding parachute, 295
Reverse engineering, 225
Rocket motors, 353
Rocket propellants, 345
Roll, 809
Round-ended projectiles, 169
R-T-S smoother, 451
Safety critical code, 13

Saichen glaciers, 569
Saltoro range, 569
Scanning probe microscopy, 599
Scanning tunneling microscopy, 599
Second-order fluid, 733
Sediment packing density, 279
Sensitivity, 345
Sensors, 615
Shape memory alloys, 615
SHBT *see* Single-heterojunction bipolar transistor
Shear frame test, 577
Shock waves impact, 169
SiGe DHBT, 289
SiGe SHBT, 289
Silica, 269
Simulation, 31, 289
Simple object access protocol, 591
Single-heterojunction bipolar transistor, 289
Single slider crank mechanism, 743
Sintered density, 269
SIP *see* System in a package
Sliding window, 259
Small-scale rocket motors, 353
Smart materials, 615
Smoke chamber test, 785
Smoke material, 785
Smoke screen, 377
Smoke transmission, 785
Snow fence, 791
Snow nets, 791
Snowfall pattern, 569
Snowpack stability test, 577
SOAP *see* Simple object access protocol
SOC *see* System on a chip
Sodium nitrate, 339
Soft output viterbi algorithm, 585
Software fault injection, 31
Software quality, 13
Software quality assurance, 31
Software testing, 13
Software validation, 13
Software verification, 13
Solid loading, 279
Solid modelling, 225
Solid particulate matter, 637
Solid propellant, 417, 637
Solid rocket motors, 309
Solid rocket propellants, 345
Specific heat release, 321
Specific impulse, 321
Specific thrust, 321
Spectrometry, 225
Spheroidisation, 665
Spinning projectile, 753
Squib, 383
Stabilisation system, 809
Stability test, 577
Steel, 665
Steganalysis, 239
Steganography, 239
STM *see* Scanning tunneling microscopy
Stovepipe systems, 591
Sulphur mustard, 531
Sulphur mustard antidote, 531
SUPERNI 263A, 93
Surface area, 269
Surface-to-air missile launch equations, 437
Surface-to-air missile trajectories, 437
Swirl parameter, 147
Synthesis, 551
Synthetic oligo probes, 199
System in a package, 47
System miniaturisation, 47
System on a chip, 47

Target algorithms, 679
Target detection, 451
Target simulation, 591
Target tracking, 679
Tear gas, 369
Tejas, 13
Terrorism, 189
Test and evaluation, 81
Testing, 31, 693
Tetrahydrofuran copolymer, 399
Thermal analysis, 345
Thermal characterisation, 87
Thermal decomposition, 329
Thermal imager, 785
Thermal stability, 391
Thermomechanical loading, 701
Thermoplastic elastomers, 399
Three tray method, 81
Tidal volume, 531
Titanium-matrix composites, 701
Tool-path elements, 117
Tool-path planning, 117
Toxicity, 531
Toxins, 495
Tracked vehicle, 743
Trajectory estimation, 129, 451
Transform-domain, 239
Transient-free convection, 477
Triacetin, 407
Tri-layer structure, 485
Turbo codes, 585
Turbo quality system, 61
Turbulence models, 147
Turbulent flow, 147
U-D Kalman filter, 451
Unconstrained effects, 701
Undetectability, 239
Unmanned aerial vehicle, 71
Unstable platform, 809
Unstable snow, 577
Validation, 31
Variable-repeat loci, 199
Verification, 31
Vibration, 615
Vicenin, 179
Viral agents, 495
Visual testing, 81
Wafer level testing, 87
Waveform mapping, 815
Weapon systems evaluation, 251
Weapon with submunitions, 295
Weapons of mass destruction, 495
Web service definition language, 591
Western disturbance, 569
Wireless transmission, 585
Workplace air quality, 637
WSDL *see* Web service definition language
XML-based web services, 591
Yaw, 809
Zanthoxylum limonella, 507
Zig-Zag tool path, 117