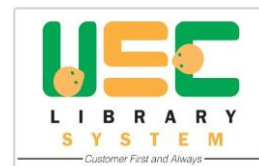




# UNIVERSITY OF SAN CARLOS

## Josef Baumgartner Learning Resource Center

### Science and Technology Section



## *Acquisitions List*

FIRST SEMESTER 2012-2013

### CHEMICAL ENGINEERING AND RELATED SUBJECTS

Ahuja, Satinder. (2011). *Chiral separation methods for pharmaceutical and biotechnological products*. Hoboken, N.J.: Wiley.  
615.19/C44

The book covers a variety of modern methods such as gas chromatography, high performance liquid chromatography, supercritical fluid chromatography, and capillary electrophoresis. It deals with the impact of chirality on the biological activity of small and large molecules and provides detailed information on useful chiral stationary phases (CSPs) for HPLC.

Bennet, Gregory S. (2010). *Food identity preservation and traceability: safer grains*. Boca Raton, FL: CRC Press. 363.1926/B43

The book provides a cohesive introduction to IPT systems and summarizes the programs currently available, in effect developing a conceptual model of IPT at the producer level. It provides a sampling of government, industry, and company approaches toward IPT systems throughout the past two decades.

Brown, Lawrence S., Holme, Thomas A. (2011). *Chemistry for engineering students*. 2<sup>nd</sup> International ed. Belmont, Calif. : Brooks/Cole Cengage Learning.  
540/B81

Center for Chemical Process Safety (CCPS). (2010). *Guidelines for acquisition evaluation and post merger integration*. Hoboken, N.J.: Wiley.  
660.0685/G94

Devahastin, Sakamon. (Ed.). (2011). *Physicochemical aspects of food engineering and processing*. Boca Raton, FL: CRC Press. 664.07/P56

Dunford, H. Brian. (2010). *Peroxidases and catalases: biochemistry, biophysics, biotechnology, and physiology*. 2<sup>nd</sup> ed. Hoboken, N.J.: John Wiley & Sons.  
572.791/D91

Grondzik, Walter T. (2010). *Mechanical and electrical equipment for buildings*. 11<sup>th</sup> ed. Hoboken, N.J.: Wiley. 696 St34

*Guidelines for vapor cloud explosion, pressure vessel burst, BLEVE and flash fire hazards*. 2<sup>nd</sup> ed. (2010). Hoboken, NJ: Wiley, 660.2804/G94

Harmsen, Jan., Powell, Joseph B. (Eds.) (2010). *Sustainable development in the process industries: cases and impact*. Hoboken, N.J. 670 Su82

Hwang, Andy, Huang, Lihan. (Eds.) (2010). *Ready-to-eat foods: microbial concerns and control measures*. Boca Raton, FL: CRC Press. 664.001579/R22

Kidnay, Arthur J. (2011). *Fundamentals of natural gas processing*. 2<sup>nd</sup> ed. Boca Raton: CRC Press.  
665.73 K54 (Alcordero Reading Corner @ Science & Technology@JB-LRC)

Leimkuhler, Hans-Joachim, (Ed.). (2010). *Managing CO<sub>2</sub> emissions in the chemical industry*. Weinheim: Wiley-VCH. 660/M31.

Luyben, William L. (2010). *Design and control of distillation systems for separating azeotropes*. Hoboken, N.J.: John Wiley. 660.2842/L97

Ahmed, Jasim, (Ed.). (2010). *Novel food processing: effects on rheological and functional properties*. Boca Raton, Fla. : CRC Press. 664.07/N85

Parkash, Surinder. (2010). *Petroleum fuels manufacturing handbook: including specialty products and sustainable manufacturing techniques*. New York: McGraw-Hill. 65.5 P21

Written by a global expert in petroleum engineering, this is the most up-to-date and comprehensive handbook on the manufacturing, blending, and end users of petroleum fuels and specialty products. This definitive volume contains in-depth technical information on petroleum processing as well as specifications and test methods for petroleum products.

Plawsky, Joel. (2010). *Transport phenomena fundamentals*. Boca Raton: CRC Press. 660.2842 P69

Smith, Cecil L. (2010). *Advanced process control: beyond single-loop control*. Hoboken, N.J.: Wiley. 660.2815/Sm51

Solen, Kenneth A., Harb, John N. (2011). *Introduction to chemical engineering: tools for today and tomorrow*. 5<sup>th</sup> ed. Hoboken, NJ: John Wiley & Sons. 660/So43

Tamang, Jyoti Prakash, Kailasapathy, Kasipathy. (Eds.). (2010). *Fermented foods and beverages of the world*. Boca Raton: CRC Press/Taylor & Francis. 664.024/F38

Turkington, Robert. (2010). *Chemicals used for illegal purposes*. Hoboken, NJ: Wiley, 363.17 T84

Young, Gary C. (2010). *Municipal solid waste to energy conversion processes: economic, technical, and renewable comparisons*. Hoboken, N.J.: John Wiley, 662.87/Y84.

## **CIVIL ENGINEERING AND RELATED SUBJECTS**

American Geological Institute. (2011). *Environmental science: understanding our changing Earth*. Clifton Park, NY : Delmar/Cengage Learning, 333.7 En89 c.2

Aouad, Ghassan. (2010). *Requirements engineering for computer integrated environments in construction*. Chichester, West Sussex, U.K. ; Ames, Iowa : Wiley-Blackwell, 690.0285/ Ao79

Bauer, Kurt W. (2010). *City planning for civil engineers, environmental engineers, and surveyors*. Boca Raton: CRC Press. 307.1216/B32

The text stresses basic concepts and principles of practice involved in urban planning as most widely practiced, particularly in small- and medium-sized communities. It introduces engineering students to land use planning as a foundation for infrastructure systems planning and development. It also presents plan implementation devices such as zoning, land subdivision control, official mapping, and capital improvement programming.

Bryan, Tony. (2010). *Construction technology: analysis and choice*. 2<sup>nd</sup> edition. Chichester, West Sussex, U.K. ; Ames, Iowa : Wiley-Blackwell. 690.837/B84

Cabrera, Enrique. (2010). *Water engineering and management through time: learning from history*. Boca Raton, FL : CRC Press. 627.09/W29

Craig, James R. *Earth resources and the environment*. 4<sup>th</sup> edition. Upper Saddle River, N.J. : Pearson Prentice Hall. 333.7 C84 c.1

Balanced, broad-based, and up to date, this comprehensive text explores the nature and critical issues of earth resources and the impacts that resource usage has on the earth environment. The authors assume little to no scientific background, and you'll find full coverage of all major types of earth resources—energy, metallic, nonmetallic, water, and soil.

Das, Braja M. (2010). *Principles of foundation engineering*. 7<sup>th</sup> edition. Australia : Cengage Learning. 624.15 D26

Das, Braja M. 1941- (2011). *Principles of soil dynamics*. Stamford, CT: Cengage Learning. 624.15136/D26

The primary focus of the book is on the applications of soil dynamics and not on the underlying principles. The material covered includes the fundamentals of soil dynamics, dynamic soil properties, foundation vibration, soil liquefaction, pile foundation and slope stability.

- Datta, T. K. (2010). *Seismic analysis of structures*. Singapore: Hoboken, NJ.  
624.1762/D26
- Davidson-Arnott, Robin. (2010). *Introduction to coastal processes and geomorphology*.  
New York: Cambridge University Press. 551.457/D28.
- Day, Robert W. (2010). *Foundation engineering handbook: design and construction with the 2009 international building code*. 2<sup>nd</sup> ed. New York: McGraw-Hill.  
624.15/D33
- Denny, Mark. (2010). *Super structures : the science of bridges, buildings, dams, and other feats of engineering*. Baltimore, Md. : Johns Hopkins University Press,  
624.17 D42
- Domone, Peter and Illston, John. (Eds.) (2010). *Construction materials: their nature and behavior*. 4<sup>th</sup> edition. Milton Park, Abingdon, Oxon ; New York : Spon Press ,  
624.18 C76
- Dusenberry, Donald O. (2010). *Handbook for blast-resistant design of buildings*.  
Hoboken, N.J.: John Wiley. 693.854 H19
- Frankel, Michael. (2010). *Facility piping systems handbook: for industrial, commercial, and healthcare facilities*. 3<sup>rd</sup> ed. New York: McGraw-Hill. 621.8672/F85
- Garber, Nicholas J. (2010). *Traffic and highway engineering*. Australia ; United States :  
Cengage Learning, 625.7 G16 c.1
- Goetsch, David L. (2010). *Construction safety and the OSHA standards*. Boston :  
Prentice Hall, 690.22021873/G55 c.2
- Grondzik, Walter T. (2010). 11<sup>th</sup> edition. *Mechanical and electrical equipment for buildings*. Hoboken, N.J. : Wiley, 696 St34
- Hsu, Thomas T.C. (2010). *Unified theory of concrete structures*. Chichester, West  
Sussex, U.K. ; Hoboken, N.J. : Wiley, 624.18341/H85
- James R. Mihelcic, et al. (2010). *Environmental engineering: fundamentals, sustainability, design*. Hoboken, NJ: Wiley. 628/En89
- Karamouz, Mohammad. (2010). *Urban water engineering and management*. Boca  
Raton, FL: CRC Press/Taylor & Francis. 628.1/K14
- Kassimali, Aslam. (2011). *Structural analysis*. 4<sup>th</sup> ed. Australia : Cengage Learning.  
624.171/K15

Khan, Mohiuddin A. (2010). *Bridge and highway structure rehabilitation and repair*. New York: McGraw-Hill. 624.20288/K52

Kucera, Jane. (2010). *Reverse osmosis: design, processes, and applications for engineers*. Salem, Mass.: Scrivener Pub. 628.164/K95.

McCabe, Steven. (2010). *Corporate strategy in construction: understanding today's theory and practice*. Chichester, U.K. ; Malden, Mass. : Wiley-Blackwell 624.0684/M45

Madabhushi, Gopal. (2010). *Design of pile foundations in liquefiable soils*. London : Imperial College Press, 624.154/M26

Murray, E. J.(Edward John),1949- (2010). *Unsaturated soils: a fundamental interpretation of soil behavior*. Chichester: Wiley-Blackwell. 624.15136/M96

Murty, K.(Kirshna). (2010). *All-in-one manual of industrial piping practice and maintenance: on-the-job solutions, tips and insights*. New York, NY: Industrial Press. 621.8672/M96

Nash, William. (2010). 5<sup>th</sup> edition. *Schaum's outlines of strength of materials*. New York : McGraw-Hill, 620.112 N17

Nova, Roberto. (2010). *Soil mechanics*. London: Hoboken, NJ: Wiley. 324.15136/N85

Parten, S.M. (2010). *Planning and installing sustainable onsite wastewater systems*. New York : McGraw-Hill Professional, 628.3 P25

Peinemann, K.V. (2010). *Membranes for water treatment*. Weinheim : Wiley-VCH ; [Chichester : John Wiley, distributor], 628.162/M51 v. 4

Protzen, Jean-Pierre. (2010). *The universe of design: Horst Rittel's theories of design and planning*. Oxon [England] ; New York, N.Y. : Routledge, 620.0042 P94

Ratay, Robert T. (Ed.) (2010). *Forensic structural engineering handbook*. 2<sup>nd</sup> ed. New York: McGraw-Hill. 624.17/F76

This authoritative resource explains how to: Investigate damage, deterioration, and collapse in a structure; Determine what caused the damage; Develop repair recommendations; Diagnose cracks; Prepare files and reports; Avoid civil liability. Helpful charts and photographs aid in your understanding of the material covered.

Sarte, S. Bry. (2010). *Sustainable infrastructure: the guide to green engineering and design*. Hoboken, N.J.: Wiley. 710/Sa77.

Sipes, James L. (2010). *Sustainable solutions for water resources: policies, planning, design, and implementation*. Hoboken, N.J.: John Wiley. 363.610973/Si74.

Soliman, Abdel-hady S. (2010). *Electrical load forecasting: modeling and model construction*. Burlington, MA : Butterworth-Heinemann, 333.793213015195 So44

Strakosch, George R. (2010). *The Vertical Transportation Handbook*. 4<sup>th</sup> edition. New Jersey : John Wiley & Sons 621.877/V61

This new edition of a one-of-a-kind handbook provides an essential updating to keep the book current with technology and practice. New coverage of topics such as machine-room-less systems and current operation and control procedures ensures that this revision maintains its standing as the premier general reference on vertical transportation.

Sturm, Terry W. (2010). *Open channel hydraulics*. Boston : McGraw-Hill, 627.23/St97

Summerhayes, Stuart. (2010). *Design risk management: contribution to health and safety*. Chichester, U.K. ; Ames, Iowa : Wiley-Blackwell, 690.22/Su64

Tan. Hai Chen. (2010). *Capture and reuse of project knowledge in construction*. Chichester, U.K.: Wiley-Blackwell. 690.068/C17

Theodore, Mary K. (2010). *Introduction to environmental management*. Boca Raton : CRC Press/Taylor & Francis Group, 363.705 T34

Treloar, Roy. (2010). *Gas installation technology*. 2nd ed. Chichester, West Sussex, U.K. ; Ames, Iowa : Wiley-Blackwell, 696.2/T71

Wastewater Collection Systems Management Task Force of the Water Environment Federation. (2010). *Wastewater collection systems management*. Alexandria, Va. : Water Environment Federation ; New York : McGraw-Hill, 628.3068 W28

Well, Matthew. (2010). *Engineers: a history of engineering and structural design*. London ; New York : Routledge, 620.009 W46

Williams, Trefor. (2010). *Construction management: emerging trends and technologies*. Clifton Park, N.Y. : Delmar/Cengage Learning, 624.068/W67

Winch, Graham M. (2010). *Managing construction projects*. 2<sup>nd</sup> ed. Chichester: Blackwell Pub. 690.068 W72

Woodson, R. Dodge. (2010). *Radiant floor heating*. 2<sup>nd</sup> edition. New York : McGraw-Hill, 697.72 W86

Yu, Wei-Wen. (2010). *Cold-formed steel design*. Hoboken, N.J. : John Wiley & Sons, 624.1821 Y90

Yuen, Ka-Veng. (2010). *Bayesian methods for structural dynamics and civil engineering*. Singapore: John Wiley & Sons. 624.101519542/Y90

## COMPUTER ENGINEERING AND RELATED SUBJECTS

Avudaiammal R. (2010). *Information coding techniques*. 2<sup>nd</sup> edition. New Delhi : Tata McGraw-Hill Education, 003.54/Av99

Blanchard, Benjamin S. (2011). *Systems engineering and analysis*. 5<sup>th</sup> edition. Boston : Prentice Hall, 620.0011 B59

Carey, Patrick. (2010). *New perspectives on HTML and XHTML, and XML: comprehensive*. Australia : Course Technology, Cengage Learning, 006.74 C18

Gosselin, Don. (2011). *PHP programming with MySQL*. 2<sup>nd</sup> ed.,IE. Australia : Course Technology/Cengage Learning, 005.2762/G69

Hanly, Jeri R. (2010). *Problem solving and program design in C*. 6<sup>th</sup> International ed. Boston: Addison-Wesley. 005.133/H19

Hersent, Olivier. (2010). *IP technology: developing VoIP protocols and IMS infrastructure*. 2<sup>nd</sup> ed. 004.695/H43

Jacobsson, Martin. (2010). *Personal networks: wireless networking for personal devices*. Chichester, West Sussex ; Hoboken, NJ : John Wiley, 621.384 J15

Lavigne, Dru. (2010). *The definitive guide to PC-BSD*. New York, N.Y. : Apress ; New York, NY : Distributed to the book trade worldwide by Springer-Verlag, 005.432 L39

Mansfield, Richard. (2010). *Mastering VBA for office 2010*. New York : Sybex, 005.2768/M31

Ponniah, Paulraj. (2010). *Data warehousing fundamentals for IT professionals*. 2<sup>nd</sup> ed. Hoboken, N.J. : John Wiley & Sons, 005.745/P77

Rahimi, Saeed K. (2010). *Distributed database management systems: a practical approach*. New Jersey : Wiley, 005.758 R12

- Ragged, Bel G. (2010). *Information security management: concepts and practice*. Boca Raton, FL : CRC Press/Taylor & Francis, 005.8/R12
- Rossetti, Manuel D. (2010). *Simulation modeling and arena*. Hoboken, NJ : John Wiley, 003.3 R73
- Smid, Peter. *CNC control setup for milling and turning: mastering CNC control systems*. New York : Industrial Press, 671.35 Sm42
- Stavdas, Alexandros, ed. (2010). *Core and metro networks*. Chichester, U.K. : Wiley, 006.67/C81
- Tavani, Herman T. (2011). *Ethics and technology: controversies, questions, and strategies for ethical computing*. Hoboken, N.J. : John Wiley & Sons, 174.90904 T19
- Troelsen, Andrew. (2010). *Pro C# 2010 and the .NET 4 platform*. 5<sup>th</sup> edition. New York, NY : Apress, 005.133 T74
- Van der Ven, Jan Anton Bernal. (2010). *Network mergers and migrations: Junos design and implementation*. Chichester, West Sussex, U.K. ; Hoboken, N.J. : Wiley, 004.6/V28
- Yang, Laurence T. ed. (2010). *Mobile intelligence*. Hoboken, N.J. : John Wiley & Sons, 004.16/M71

## **ELECTRICAL/ELECTRONIC & COMMUNICATIONS ENGINEERING AND RELATED SUBJECTS**

- Bird, John. (2010). *Electrical circuit theory and technology*. Amsterdam : Elsevier, 621.3192/B53
- Brillson, Leonard J. (2010). *Surfaces and interfaces of electronic materials*. Germany : IEEE, 621.381 B76
- Chaillet, Nicolas. (2010). *Microrobotics for micromanipulation*. London, UK : ISTE ; Hoboken, NJ : Wiley, 629.8933/M58
- Communication Technology Update and Fundamentals* (2010). 12<sup>th</sup> edition. Amsterdam : Elsevier/Focal Press, 621.382 C73
- Costa, Nelson. (2010). *Multiple-input multiple-output channel models: theory and practice*. Hoboken, N.J. : Wiley, 621.382/Y19
- Dargie, Walteneagus. (2010). *Fundamentals of wireless sensor networks: theory and practice*. Chichester, West Sussex, U.K. ; Hoboken, NJ : Wiley,



681.2/D24

Di Pilla, Steven. (2010). *Slip, trip, and fall prevention: a practical handbook*. 2<sup>nd</sup> ed. Boca Raton: CRC Press. 620.86 D62

Dohler, Mischa. (2010). *Cooperative communications: hardware, channel & PHY*. Chichester: Wiley. 621.384/D68

Dorf, Richard. (2011). *Introduction to electric circuits*. 8<sup>th</sup> ed. Hoboken, NJ : John Wiley & Sons, 621.31924/D73

Ferreira, H.C. (Ed.) (2010). *Power line communications: theory and applications for narrowband and broadband communications over power lines*. Chichester, West Sussex, UK ; Hoboken, NJ : Wiley, 621.382 P87

Power Line Communications (PLC) is a promising emerging technology, which has attracted much attention due to the wide availability of power distribution lines. This book provides a thorough introduction to the use of power lines for communication purposes, ranging from channel characterization, communications on the physical layer and electromagnetic interference, through to protocols, networks, standards and up to systems and implementations.

Frenzel, Louis E. (2010). *Electronics explained: the new systems approach to learning electronics*. Amsterdam ; Boston : Newnes, 621.381 F88

This practical application-driven viewpoint and breadth of coverage is unprecedented. This book touches upon TV, audio, satellite, radio, wireless communication, and networking. All of this content is brought to life through hands-on projects that you will enjoy whether you are a hobbyist, student, or engineer.

Garcia-Martinez, Javier (Ed.) (2010). *Nanotechnology for the energy challenge*. Weinheim : Wiley-VCH Verlag GmbH & Co., 621.042 N15

Golnaraghi, M. F. (2010). *Automatic control systems*. 9<sup>th</sup> ed. Hoboken, NJ: Wiley. 629.8/G58.

Haupt, Randy L. (2010). *Antenna arrays: a computational approach*. Hoboken, N.J.: John Wiley & Sons. 621.3824/H29

This book covers a wide range of antenna array topics that are becoming increasingly important in wireless applications, particularly in design and computer modeling. Signal processing and numerical modeling algorithms are explored, and MATLAB computer codes are provided for many of the design examples.

Haus, Jorg. (2010). *Optical sensors*. Weinheim : WILEY-VCH, 681.25 H29

Hodges, Richard P. (2010). *Underwater acoustics: analysis, design, and performance of sonar*. Chichester: J. Wiley. 621.3895 H66

The author compares and contrasts different techniques for sonar design, analysis and performance prediction and includes key experimental and theoretical results, pointing the reader towards further detail with extensive references. This book treads the line between the highly theoretical and mathematical texts and the more populist, non-mathematical books that characterize the existing literature in the field.

Hsu, Hwei P. (2010). *Schaum's outlines signals and systems: 571 fully solved problems*. 2<sup>nd</sup> edition. New York, NY : McGraw-Hill, 621.38223 H85

Ingard, Uno. (2010). *Noise reduction analysis*. Sudbury, Mass. : Jones and Bartlett Publishers, 620.23 In41

Kalsi, H.S. (2010). *Electronic instrumentation*. 3<sup>rd</sup> ed. New Delhi : Tata McGraw-Hill Education, 621.381/K12

Keyhani, Ali. (2010). *Integration of green and renewable energy in electric power systems*. Hoboken, N.J. : Wiley, 621.3121 K52

*Integration of Green and Renewable Energy in Electric Power Systems* covers the principles, analysis, and synthesis of closed loop control of pulse width modulated converters in power electronics systems, with special application emphasis on distributed generation systems and uninterruptible power supplies. It provides practical, application-oriented system analysis and synthesis that is instructional and inspiring for practicing electrical engineers and researchers as well as undergraduate and graduate students.

Kim, Yang-Hann. (2010). *Sound propagation : an impedance based approach*. Singapore ; Hoboken, NJ : Wiley, 534 K56

Krarti, Moncef. (2011). *Energy audit of building systems: an engineering approach*. 2<sup>nd</sup> edition. Boca Raton, FL : CRC Press, 696 K86

Kumar, B. Preetham. (2010). *Digital signal processing laboratory*. 2<sup>nd</sup> ed. Boca Raton, Fla. : CRC Press/Taylor & Francis, 621.3822/K96

Liu, Weifeng. (2010). *Kernel adaptive filtering: a comprehensive introduction*. Hoboken, N.J. : John Wiley, 621.38223/L74

Liu, Wei. (2010). *Wideband beamforming: concepts and techniques*. Chichester, West Sussex, U.K. ; Hoboken, N.J. : Wiley, 621.3822/L74

Luo, Fang Lin. (2010). *Power electronics: advanced conversion technologies*. Boca Raton : CRC Press/Taylor & Francis, 621.317/L97

Lynn, Paul A. (2010). *Electricity from sunlight: an introduction to photovoltaics*. Chichester : Wiley, 621.31244 L99

Macnamara, Thereze M. (2010). *Introduction to antenna placement and installation*. Chichester, West Sussex, U.K.: Wiley. 621.3824 M23

*Introduction to Antenna Placement and Installation* introduces the characteristics of antennas and their integration on aircraft. The book covers antenna siting and placement, computational antenna modelling on structures, measurement on sub-scale models of the airframe, full-scale ground measurements and in-flight measurements.

Michell, Anthony. (2008). *Samsung Electronics and the struggle for leadership of the electronics industry*. Singapore : John Wiley & Sons (Aisa), 338.7621381 M58

Neamen, Donald A. (2010). *Microelectronics: circuit analysis and design*. 4<sup>th</sup> edition. New York : McGraw-Hill, 621.3815 N26

Nayak, Amiya. (2010). *Wireless sensor and actuator networks: algorithms and protocols for scalable coordination and data communication*. Hoboken, N.J. : John Wiley & Sons, 681.2 W74

Plan, design, construct, and operate a sustainable on-site CHP (combined heat and power) facility using the detailed information in this practical guide. *Sustainable On-Site CHP Systems* reveals how to substantially increase the energy efficiency in commercial, industrial, institutional, and residential buildings using waste heat and thermal energy from power generation equipment for cooling, heating, and humidity control. In-depth case studies illustrate real-world applications of CHP systems.

Roth, Charles. (2010). *Fundamentals of logic design*. 6<sup>th</sup> edition. Mason, OH : Cengage Learning, 621.395/R74

Stanton, Neville A. (2010). *Human factors in the design and evaluation of Central Control Room Operations*. Boca Raton : CRC Press, 620.82/H88

Human Factors in the Design and Evaluation of Central Control Room Operations provides an analysis of Human Factors and Ergonomics in this complex area and the implications for control room staff. The book presents fourteen human factors topics: competencies, training, procedures, communications, workload, automation, supervision, shift patterns, control room layout, SCADA interfaces, alarms, control room environment, human error, and safety culture.

Plevyak, Thomas. (Ed.) (2010). *Next generation telecommunications networks, services and management*. Hoboken, N.J. : Wiley, 621.382/N49

Sorrentino, Roberto. (2010). *Microwave and RF engineering*. Chichester, West Sussex, U.K. ; Hoboken, N.J. : Wiley, 621.3813 So69

Steer, Michael. (2010). *Microwave and RF design: a systems approach*. Raleigh, N.C. : SciTech Pub., 621.384 St32

Wang, Yun. (2010). *Dark energy*. Weinheim : Wiley-VCH, 523.01 W18

Weeks, Michael. (2011). *Digital signal processing using MATLAB and wavelets*. 2<sup>nd</sup> ed. Sudbury, Mass.: Jones and Bartlett Publishers. 621.3822/W41.

White, Curt M. (2011). *Fundamentals of networking and data communications*. Australia : Course Technology, Cengage Learning, 004.6 W58

Yazdani, Amirnaser. (2010). *Voltage-sourced converters in power systems: modeling, control and applications*. 621.313/Y29

Ziemer, Rodger E. (2010). *Principles of communication: systems, modulation, and noise*. 6<sup>th</sup> edition. Hoboken, NJ : Wiley, 621.3822 Z63

## INDUSTRIAL ENGINEERING AND RELATED SUBJECTS

Aikens, C. Harold. (2011). *Quality inspired management: the key to sustainability*. Boston : Prentice Hall, 658.4013 Ai42

Asfahl, Ray. (2010). *Industrial safety and health management*. 6<sup>th</sup> edition. Upper Saddle River, N.J. : Prentice Hall, 613.62 As28

*Industrial Safety and Health Management, 6th Edition* combines — in one volume — an exploration of the time-tested concepts and techniques of safety and health management, a modern perspective on compliance with mandatory standards for workplace safety and health, and a variety of solved problems, case studies, and exercises. It provides reasons, explanations, and illustrations of the hazard mechanisms that form the underlying basis for the volumes of detailed standards for workplace safety and health.

Bajpai, Pratima. (2010). *Environmentally friendly production of pulp and paper*. Hoboken, N.J. : Wiley, 676.042/B16

Blanchard, Benjamin S. (2011). *Systems engineering and analysis*. 5<sup>th</sup> edition. Boston : Prentice Hall, 620.0011 B59

CAPT. (2011). *Process Quality*. Upper Saddle River, NJ : Prentice Hall, 658.562 P94

Crandall, Richard E. (2010). *Principles of supply chain management*. Boca Raton : CRC Press/Taylor & Francis Group, 658.7/C85

Daley, Dan. (2010). *Reliability assesment: a guide to aligning expectations, practices, and performance*. New York, N.Y. : Industrial Press, Inc., 620.00452 D15

Gauthier, Michael. (2010). *Robotic microassembly*. Hoboken, N.J. : Wiley ; Piscataway, N.J. : IEEE, 670.4272./R57

Graedel, T.E. (2010). *Industrial ecology and sustainable engineering*. Boston : Pearson, 658.408 G7

Hollnagel, Erik. (2010). *Safer complex industrial environments: a human factors approach*. Boca Raton : CRC Press, 363.11/Sa17

Kalpakjian, Serope. (2010). *Manufacturing engineering and technology*. 6<sup>th</sup> edition. New York : Prentice Hall, 670.42 K12

Koradecka, Danuta (Ed.) (2010). *Handbook of occupational safety and health*. Boca Raton : Taylor & Francis, 613.62 H19

Handbook of Occupational Safety and Health provides a wide range of methods along with specific criteria for assessing hazard and exposure in the workplace environment. More importantly, it also offers ways to reduce these hazards. The book supplies a compendium of interdisciplinary knowledge that includes physical, chemical, and psychosocial risk factors in the working environment, highlighting issues in Occupational Safety and Health management.

Morse, Lucy. (2010). *Managing Engineering and Technology*. 5<sup>th</sup> edition. Upper Saddle River [N.J.] : Prentice Hall, 658.002462 M83

Nag, Ahindra. (2010). *Biosystems engineering*. New York : McGraw-Hill, 660.6 N13

*Biosystems Engineering* discusses how to effectively merge solid design techniques with biology and the applied sciences. It explains how to analyze genetic data, design ecosystem models, implement conservation strategies, harness biofuels, and ensure food safety. Full coverage of transgenic wood production, package engineering, supercritical fluid extraction, and agricultural land management is included.

Salvendy, Gavriel. (2010). *Introduction to service engineering*. Hoboken, N.J. : John Wiley & Sons, 658/Sa38

Seider, Warren D. (2010). *Product and process design principles : synthesis, analysis, and evaluation*. 3<sup>rd</sup> edition. Hoboken, NJ : Wiley, 660 P94

Slater, Phillip. (2010). *Smart Inventory solutions: improving the management of engineering materials and spare parts*. 2<sup>nd</sup> edition. New York, N.Y. : Industrial Press, 658.787/L15

Yildiz, Faith. (Ed.) (2010). *Development and manufacture of yogurt and other functional dairy products*. Boca Raton, FL : CRC Press/Taylor & Francis, 641.37/D49

## MECHANICAL ENGINEERING AND RELATED SUBJECTS

Baukal, Charles E. Jr. (Ed.) (2011) *Industrial combustion testing*. Boca Raton : Taylor & Francis, 621.4023 In2

Bennett, Sean. (2010). *Modern diesel technology*. Diesel engines. Clifton Park, N.Y. ; Australia : Delmar Cengage Learning, 621.436 B43

Boljanovic, Vukota. (2010). *Metal shaping processes: casting and molding, particulate processing, deformation processes, and metal removal*. New York : Industrial Press, 671.3 B63

Cengel, Yunus A. (2010). *Fluid mechanics: fundamentals and applications*. 2<sup>nd</sup> ed. Boston: McGraw-Hill Higher Education. 620.106/C33\$222

The text covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real-world engineering examples. The text helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics, and by supplying attractive figures, numerous photographs and visual aids to reinforce the physics.

Chen, Naixing. (2010). *Aerothermodynamics of turbomachinery: analysis and design*. Singapore: John Wiley & Sons. 621.406/C42

Aerothermodynamics of Turbomachinery: Analysis and Design is ideal for senior undergraduates and graduates studying in the fields of mechanics, energy and power, and aerospace engineering; design engineers in the business of manufacturing compressors, steam and gas turbines; and research engineers and scientists working in the areas of fluid mechanics, aerodynamics, and heat transfer.

Collins, Jack A. (2010). *Mechanical design of machine elements and machines*. 2<sup>nd</sup> edition. Hoboken, NJ : Wiley, 621.815/C69

Costanzo, Francesco. (2010). *Engineering mechanics: statics & dynamics* . Boston : McGraw-Hill Higher Education, 620.1 C82

Crolla, David A. (Ed.) (2009). *Automotive engineering: powertrain, chassis system, and vehicle body*. Amsterdam : Elsevier/Butterworth-Heinemann, 629.23 Au82

Dixon, S. L. (2010). *Fluid mechanics and thermodynamics of turbomachinery*. 6<sup>th</sup> ed. Amsterdam : Butterworth-Heinemann/Elsevier, 621.406/D64

Dorfman, Abram S. (2010). *Conjugate problems in convective heat transfer*. Boca Raton : CRC Press, 621.40225/D73

Conjugate Problems in Convective Heat Transfer addresses the latest theory, methods, and applications associated with both analytical and numerical methods of solution CHT problems and their exact and approximate solutions. It demonstrates how the true value of a CHT solution is derived by applying these solutions to contemporary engineering design analysis.

Engel, Thomas. (2010). *Thermodynamics, statistical thermodynamics, & kinetics*. New York : Prentice Hall, 536.7 En32

Haines, Roger W. (2010). *HVAC systems design handbook*. 5<sup>th</sup> ed. New York: McGraw-Hill. 697/H12

*HVAC Systems Design Handbook*, Fifth Edition, features new information on energy conservation and computer usage for design and control, as well as the most recent International Code Council (ICC) Mechanical Code requirements. Detailed illustrations, tables, and essential HVAC equations are also included. This comprehensive guide contains everything you need to design, operate, and maintain peak-performing HVAC systems.

Herman, Stephen L. (2010). *Electricity & controls for HVAC/R*. Australia ; Clifton Park, NY : Delmar Cengage Learning, 697 H42

Holman, J.P. (2010). *Heat transfer*. Boston, [Mass.] : McGraw Hill Higher Education, 621.4022 H73

Krar, Steve F. (2011). *Technology of machine tools*. New York, NY : McGraw-Hill, 621.902 K86

McGuire, Patrick M. (2010). *Conveyors: application, selection, and integration*. Boca Raton : CRC Press, 621.867 M17

May, Ed. (2010). *Automotive mechanics: volume 1. 8<sup>th</sup> edition*. Sydney : McGraw-Hill, 629.287 M45 v.1

Norton, Robert L. (2011). *Machine design: an integrated approach*. Boston : Prentice Hall, 621.815 N82 2011

Petela, Ryszard. (2010). *Engineering thermodynamics of thermal radiation for solar power utilization*. New York : McGraw Hill, 621.47 P44

Phillips. Bill. (2010). *Locksmithing*. 2<sup>nd</sup> edition. New York : McGraw-Hill, 683.3 P54

Philpot, Timothy. (2011). *Mechanics of materials: an integrated learning systems*. 2<sup>nd</sup> ed. Hoboken, NJ : John Wiley, 620.1123/P54

Piersol, Allan. (2010). *Harris' shock and vibration handbook*. 6<sup>th</sup> edition. New York : McGraw-Hill, 620.3/H24

Written by a team of internationally recognized experts, this comprehensive resource provides all the information you need to design, analyze, install, and maintain systems subject to mechanical shock and vibration. The book covers theory, instrumentation, measurement, testing, control methodologies, and practical applications.

Pytel, Andrew. (2010). *Engineering mechanics: dynamics*. 3<sup>rd</sup> SI ed. Australia: Cengage Learning. 620.104/P99

Sharma, Kal Renganathan. (2010). *Nanostructuring operations in nanoscale science and engineering*. New York : McGraw-Hill, 620.5 Sh23

*Nanostructuring Operations in Nanoscale Science and Engineering* explains how to manufacture high-purity fullerenes, assemble carbon nanotubes, and use nanofluids and nanowires. You will also learn how to develop high-performance biochips, work with biomimetics, and design molecular machines.

Tongue, Benson H. (2010). *Dynamics: engineering mechanics*. 2<sup>nd</sup> edition. Hoboken, NJ : John Wiley & Sons, 620.1/T64

Ullman, David G. (2010). *The mechanical design process*. 4<sup>th</sup> edition. Boston : McGraw-Hill Higher Education, 621.815 UI42

Vogel, Werner. (2010). *Large-scale solar thermal power : technologies, costs, and development*. Weinheim : Wiley-VCH, 621.31244 V86

Whyte, W. (2010). *Cleanroom technology: fundamentals of design testing and operation*. 2<sup>nd</sup> ed. Hoboken, NJ : John Wiley & Sons, 620.86/W62

## ENGINEERING MATH

Chapra, Steven. (2010). *Numerical methods for engineers*. 6<sup>th</sup>, MIE. Boston : McGraw-Hill Higher Education, 518.02462/C36

Corey, Gerald. (2011). *Issues and ethics in the helping professions*. 8<sup>th</sup> edition. Australia ; United States : Brooks/Cole/Cengage Learning, 174.2/C81

*Issues and Ethics in the Helping Professions* (Eighth Edition) explores such questions as: What role do the therapist's personal values play in the counseling relationship? What ethical responsibilities and rights do clients and therapists have? And what considerations are involved in adapting counseling practice to diverse client populations?

Hsu, Hwei P. (2011) *Schaum's outline series on probability, random variables & random processes*. 2<sup>nd</sup> edition. New York : McGraw-Hill, 519.2 H85

*Schaum's Outline of Probability, Random Variables, and Random Processes* offers extra practice on topics such as bivariate random variables, joint distribution functions, moment generating functions, Poisson processes, Wiener processes, power spectral densities, and white noise. You'll also get coverage of linear systems to random outputs, Fourier series and Karhunen-Loève expansions, Fourier transform of random processes, parameter estimation, Bayes' estimation, and mean square estimation.

Mozgovoy, Maxim. (2010). *Algorithms, languages, automata, and compilers : practical approach*. Sudbury, Mass.: Jones and Bartlett Publishers. 511.3/M87

*Algorithms, Languages, Automata, & Compilers: A Practical Approach* is designed to cover the standard theory of computing topics through a strong emphasis on practical applications rather than theorems and proofs. Finite automata, Turing machines, models of computation, complexity, solvability, and other topics that form a foundation of modern programming are discussed -first with a gentle theoretical orientation, and then applied through programming code and practical examples. JFLAP projects and applications are integrated throughout the book, and C# is used for all code.

Navidi, William. (2011). *Statistics for engineers and scientists*. 3<sup>rd</sup> edition. New York : McGraw-Hill, 519.5 N22

O'Neil, Peter V. (2010). *Elements of advanced engineering mathematics*. Australia : Cengage Learning, 515.2433 P44

Vining, Geoffrey. (2011). *Statistical methods for engineers*. Boston, Mass. : Cengage Learning, 620.0015195 V76

## GENERAL ENGINEERING

Browne, Michael E. (2010). *Schaum's outlines : physics for engineering and science*. New York : McGraw-Hill, 530 B81

Hamad, Munir M. (2011). *AutoCAD 2010 essentials*. Comprehensive ed. Sudbury, Mass.: Jones and Bartlett Publishers. 620.00420285536/H17

James, Glyn [et al] . (2010). *Modern engineering mathematics*. Harlow, England ; New York : Pentice Hall, 510.2462 M72



Martin, Mike W. (2010). *Introduction to engineering ethics*. Boston : McGraw-Hill Higher Education, 174.962 M36

Slater, Phillip. (2010). *Smart inventory solutions: improving the management of engineering materials and spare parts*. New York, N.Y. : Industrial Press, 658.787 SI15

Tavani, Herman T. (2011). *Ethics and technology: controversies, questions, and strategies for ethical computing*. 3<sup>rd</sup> ed. Hoboken, N.J.: John Wiley & Sons. 174.90904/T19

Information technology professionals must not only have a strong understanding of the latest technology, but they also need to be grounded in ethics. The third edition provides them with the information they need to succeed in the field. Each chapter is updated with new case studies and scenarios to provide the most current information. Review and discussion questions are included to reinforce key concepts.

Wheeler, Anthony J. (2010). *Introduction to engineering experimentation*. Upper Saddle River, N.J. : Pearson Higher Education, 620.0078 W56

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