

MANUFACTURING ENGINEERING – SUGGESTED TEXT LIST

08-Mfg-A1 Design and Manufacture of Machine Elements

Juvinall, Robert C., and Kurt M. Mershek, Fundamentals of Machine Component Design, 4th Edition. Wiley, 2005. ISBN: 0-471-66177-5.

Groover, Mikell P., Fundamentals of Modern Manufacturing: Materials, Processes, and Systems, 3rd Edition. Wiley, 2006. ISBN: 0-471-74485-9.

08-Mfg-A2 - Manufacturing Processes

Kalpakjian, Serope, Manufacturing Processes for Engineering Materials, 3rd Edition, Addison Wesley Longman Inc., 1997. ISBN # 0-201-82370-5

E.P. DeGarmo, J.T. Black, and R.A. Kohser, Materials and Processes in Manufacturing, 6th edition. MacMillan, 1984.

08-Mfg-A3 - Production Management

Stephenson, J. Williams, Production Operations Management, 6th Ed., CD Rom On-Line Card, McGraw Hill. ISBN 007 2359587

Stevenson & Hojati, Operations Management, 2nd Edition, McGraw-Hill Publishing Co. ISBN# 0-07-091189-4, 2004

08-Mfg-A4- Analysis and Design of Work

Ralph M. Barnes, Motion and Time Study Design and Measurement of Work, 7th Edition. John Wiley and Sons Inc.

08-Mfg-A5- Facilities Planning

Meyers, F.E. & Stephens, M,P, Manufacturing Facilities Design and Material Handling, Edition 3, 2005, ISBN 0-13-112535-4

Muther,R,J & Wheeler,J,D, Simplified Systematic Layout Planning, ISBN 0-933684-09-6

S. Heragu, Facilities Design, PWS Publishing Company (20 Park Plaza; Boston MA 02116-4324), 1997. ISBN # 0-534-95183-X

D.R. Sule, Manufacturing Facilities. PWS-Kent Publishing, Boston.

J.A. Tompkins and J.A. White, Facilities Planning. John Wiley and Sons Inc.

08-Mfg-A6 - Quality Planning, Control, and Assurance

J.M. Juran and F.M. Gryna, Quality Planning and Analysis, latest edition. McGraw-Hill.

D.C. Montgomery, Introduction to Statistical Quality Control, latest edition. John Wiley and Sons (NOTE: Exclude Chapters 10 and 15.)

08-Mfg-A7 Electrical and Electronics Engineering

Edminister, J. A., and M. Nahvi, Electric Circuits, 4th Edition. Schaum's Outlines, 2003. Nasar, S., Electric

Machines and Electromechanics, 2nd Edition. Schaum's Outlines, 1998

Rizzoni, G., Principles and Applications of Electrical Engineering, 5th edition. McGraw Hill, 2007.

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08-Mfg-B1 - Computer Aided Design and Computer-Assisted Manufacturing

M.P. Groover, Automation, Production Systems and Computer-Integrated Manufacturing, latest edition. Prentice-Hall, 1987. ISBN # 0-13-054652-6025.

08-Mfg-B2 - Computer Integrated Manufacturing (CIM)

Reinhold, Blume, Djllmann, Computer Integrated Manufacturing Technology and Systems, latest edition. Marcel Dekker, Inc. ISBN # 0-8247-7403-5.

08-Mfg-B3 - Systems Simulation

A.M. Low and W.D. Kelton, Simulation, Modelling and Analysis, 2nd edition. McGraw-Hill Inc., 1991.

C.D. Pegden, R.E. Shannon, and R.P. Sadowski, Instruction to Simulation Using Siman. McGraw-Hill Inc., 1990.

08-Mfg-B4 Product Design and Development

Prime Texts:

Collier, D.A. & Evans, J.R., Operations Management, Goods, Services and Value Chains, Edition 2, Illustrated, Thomson-Delmar Publishing, 2007 ISBN 0-324-36077-0

Ulrich, Karl T. & Steven D. Eppinger, Product Design and Development, 4th Edition. McGraw Hill, 2008. ISBN: 13 9780073101422.

Boothroyd, G., W.A. Knight & Peter Dewhurst, Product Design for Manufacture and Assembly, 2nd Edition. Marcel Dekker Inc. 2002. ISBN-10: 082470584X.

Supplementary Texts:

Ullman, David G., The Mechanical Design Process, 3rd Edition. McGraw Hill, 2003. ISBN: 0072373385.

08-Mfg-B5 Engineering Materials

Prime Text:

Ashby, Michael and D.R.H. Jones, Engineering Materials 1: An Introduction to Properties, Applications and Design, 3rd Edition. Butterworth-Heinemann, 2005. ISBN-10: 0750663804.

Ashby, Michael and D.R.H. Jones, Engineering Materials 2: An Introduction to Microstructures, Processing and Design, 3rd Edition. Butterworth-Heinemann, 2005. ISBN-10: 0750663812.

Supplementary Texts:

Courtney, Thomas H., Mechanical Behavior of Materials, 2nd Edition. Waveland Pr. Inc., 2005. I S B N-10: 1577664256.

Ashby, Michael, Materials Selection in Mechanical Design, 3rd Edition. Butterworth-Heinemann, 2005. ISBN-10: 0750661682.

08-Mfg-B6 Metrology

Dotson, Connie, Fundamentals of Dimensional Metrology, Edition 5, Illustrated, Thomson-Delmar Publishing, 2006, ISBN13 - 978-1-4180-2062-0

08-Mfg-B8 Robot Mechanics

Paul, R.P., Robot Manipulators - Mathematics, Programming and Control. MIT Press, 1981. ISBN 026216082X (out of print, but could be borrowed from libraries)

Craig, J.J., Introduction to Robotics: Mechanism and Control. Addison-Wesley Publishing Co., 2005. ISBN 0201543613

MANUFACTURING ENGINEERING – SUGGESTED TEXT LIST

08-Mfg-B9 - Industrial Safety and Health

Occupational Health and Safety Act Regulation for Industrial Establishment. 880 Bay St. Toronto, Ontario. M7B 1N8. Tel.: 416-326-5300, 1-800 668-9938.

Willie Harruner, Occupational Safety Management and Engineering, latest edition. Prentice-Hall. ISBN 0-13-629437-5.

08-Mfg-B10 Tooling, Jigs, and Fixture Design

Edward G. Hoffman, Jig and Fixture Design, Edition 5, Illustrated, Cengage Learning, 2003, ISBN 1401811078, 9781401811075

08-Mfg-B11 Fluid Machinery

Dixon, S.L., Fluid Mechanics and Thermodynamics of Turbomachinery, 5th Edition. Butterworth-Heinemann, 2005.

Finnemore, E.J. & J.B. Franzini, Fluid Mechanics with Engineering Applications, 10th Edition. McGraw-Hill, 2002.

08-Mfg-B12 - Ergonomics

R.S. Bridger, Introduction to Ergonomic. McGraw-Hill, ISBN 0-07-007741-X.

Kodak Ergonomics Group, Ergonomic Design for People at Work, Volumes I and II. Van Nostrand Reinhold Co. Ltd.

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