

## **MANUFACTURING ENGINEERING – SUGGESTED TEXT LIST**

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### **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, 3<sup>rd</sup> Edition. Wiley, 2006. ISBN: 0-471-74485-9.

### **08-Mfg-A2 - Manufacturing Processes**

Kalpakjian, Serope, Manufacturing Processes for Engineering Materials, 3<sup>rd</sup> 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, 6<sup>th</sup> edition. MacMillan, 1984.

### **08-Mfg-A3 - Production Management**

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

Stevenson & Hojati, Operations Management, 2<sup>nd</sup> 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, 7<sup>th</sup> Edition. John Wiley and Sons Inc.

### **08-Mfg-A5- Facilities Planning**

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, 4<sup>th</sup> Edition. Schaum's Outlines, 2003. Nasar, S.,

Electric Machines and Electromechanics, 2<sup>nd</sup> Edition. Schaum's Outlines, 1998

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

### **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.

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

Reinhold, Blume, Dyllmann, 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, 2<sup>nd</sup> 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:*

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

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

#### *Supplementary Texts:*

Ullman, David G., The Mechanical Design Process, 3<sup>rd</sup> 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, 3<sup>rd</sup> Edition. Butterworth-Heinemann, 2005. ISBN-10: 0750663804.

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

#### *Supplementary Texts:*

Courtney, Thomas H., Mechanical Behavior of Materials, 2<sup>nd</sup> Edition. Waveland Pr. Inc., 2005. ISBN-10: 1577664256.

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

### **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

### **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.

## **MANUFACTURING ENGINEERING – SUGGESTED TEXT LIST**

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### **08-Mfg-B11 Fluid Machinery**

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

Finnemore, E.J. & J.B. Franzini, Fluid Mechanics with Engineering Applications, 10<sup>th</sup> 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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