

**Philadelphia University**  
**Mechatronics Department**  
**Resources: Textbooks & References**  
**2009-2010 (1)**

The following is a list of the books and references used in the mechatronics engineering courses offered in the first semester 2009-2010

<b>Publisher / Year</b>	<b># Copies</b>	<b>Author</b>	<b>Title</b>	<b>Acc. No.</b>	<b>Subject</b>	<b>No</b>
McGraw-Hill, 1990	2	Beer, Johnston	Vector Mechanics for Engineering Dynamics	620.104 BEE	<b>Engineering Mechanics (1) (640231)</b>  <b>&amp;</b>  <b>Engineering Mechanics (2) (640432)</b>	1
Surjeet-Delhi, 1989	2	S.L. Long	Elements of Static and Dynamics	531.12 LON		2
McGraw-Hill, 1990	2	Beer, Johnston	Vector Mechanics for Engineers. Static	620.103 BEE		3
Longman, 1991	2	J. Hannah	Applied Mechanics	620.1 HAN		4
Irwin, 1989	3	Das, Sami	Engineering Mechanics Static	620.103DAS		5
Surjeet-Delhi, 89	2	S.L. Long	Elements of Static and Dynamics	531.12LON		6
Mac Millan, 1989, 1992	1	R.C. Hibbeler	Engineering Mechanics Dynamics	620.104 HIB		7
McGraw-Hill, 1990	2	Kumar	Engineering Mechanics Dynamics	620.1 KUM		8
McGraw-Hill, 1991	1	J. Grosjean	Kinematics and Dynamics of Mechanisms	621.811 GRO		9
Hutchinson, 1987	1	J. Gorsjean	Principles of Dynamics	620.1074 GRO		10
John Wiley & Sons, 1987, 1993	1	J.L. Meriam	Engineering Mechanics Static	620.1 MER		11
John Wiley & Sons, 1987, 1993	1	J.L. Meriam	Engineering Mechanics Dynamics	620.1 MER		12
Glenco, 1991	1	Jensen	Applied Engineering Mechanics	620.1 JEN		13

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<b>McGraw-Hill 1987</b>	<b>3</b>	<b>Z. Peebles Peyton</b>	<b>Probability, Random Variables, and Random Signal Principles</b>	<b>519.2 PEE</b>	<b>Statistics and Probability Theory (640202)</b>	<b>1</b>
<b>Macmillan 1989</b>	<b>2</b>	<b>Ross, Sheldon</b>	<b>A First Course in Probability</b>	<b>519.2 ROS</b>		<b>2</b>
<b>Macmillan 1990</b>	<b>3</b>	<b>Walpole, Roland</b>	<b>Introduction to Statistics</b>	<b>519.5 WAL</b>		<b>3</b>
<b>Prentice-Hall 90</b>	<b>2</b>	<b>Miller, Irwin, Freund</b>	<b>Probability and Statistics for Engineers</b>	<b>519.202462 MIL</b>		<b>4</b>
<b>John-Wiley 1987</b>	<b>2</b>	<b>Ross, Sheldon</b>	<b>Introduction to Probability for Engineers and Scientists</b>	<b>519.2 ROS</b>		<b>5</b>
<b>Macmillan 1984</b>		<b>C.W. Helstrom</b>	<b>Probability &amp; Stochastic Processes for Engineers</b>	<b>519.2 HEL</b>		<b>6</b>

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Addison – Wesley, 1982	2	Van Vlack	Materials for Engineering.	620.11 VAN	<b>Engineering Materials and Manufacturing Technology (640251)</b>	1
Prentice – Hall 1985	2	Thornton	Fundamentals of Engineering Materials	620.11 THO		2
Addision-Wesley, 1980	2	Van Vlack	Elements of Materials Science and Engineering	620.11 VAN		3
Manghton Mifflin, 1990	2	Trojan, Flin	Engineering Materials	620.11 FLI		4
Macmillan, 1987	2	Jackson	Civil Engineering Material	620.11 JAC		5
Addison – Wesley , 1991	2	Kalpakejan	Manufacturing Processes for Engineering Materials	670 KAL		6
McGraw – Hill , 1987	3	Schey John	Introduction to Manufacturing Processes	670 SCH		7
Mac Millan, 1988	3	Degarmo	Materials and Processes in Manufacturing	671 DEG		8
Addision-Wesley, 1980	2	Van Vlack	Elements of Materials Science and Engineering	620.11 VAN		9
Dhanpat Rai&Sons, 1995	1	M. Lal	Material Science	620.11 LAL		10
Addison – Wesley, 1982	2	Van Vlack	Materials for Engineering.	620.11 VAN		11
John Wiley & Sons, 1977	2	Jastrzebski	The Nature and Properties of Engineering Materials	620.11 JAS		12
Prentice – Hall 1985	2	Thornton	Fundamentals of Engineering Materials	620.11 THO		13

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<b>John Wiley 1996</b>	<b>2</b>	<b>Sen, PG</b>	<b>Principles of electric machines and power electronics</b>	<b>E020806</b>	<b>Power Electronics and Drives (640324)</b>	<b>1</b>
<b>McGraw Hill 1993</b>	<b>2</b>	<b>Lander, W</b>	<b>Power Electronics</b>	<b>E020400</b>		<b>2</b>
<b>New Delhi 2000</b>	<b>5</b>	<b>Reddy, S</b>	<b>Fundamentals of power electronics</b>	<b>E019301</b>		<b>3</b>
<b>Mc Graw Hill, 1995</b>	<b>2</b>	<b>W. Crouse &amp; D. Anglin</b>	<b>Automatic Engines</b>	<b>629.25 CRO</b>		<b>4</b>
<b>McGraw – Hill, 1986</b>	<b>1</b>	<b>Millman Jacob, Halkins Christos C.</b>	<b>Electronics Fundamentals and Applications</b>	<b>621.381 MIL</b>		<b>5</b>
<b>Charles E . Merrill 1983</b>	<b>3</b>	<b>Tocci, Ronald,</b>	<b>Electronic Devices</b>	<b>621.3815 TOC</b>		<b>6</b>
<b>Mc Graw-Hill 1987</b>	<b>3</b>	<b>Millman Jacob Grable Arvin</b>	<b>Micro Electronics</b>	<b>621.381 MIL</b>		<b>7</b>
<b>McGraw – Hill, 1967</b>	<b>1</b>	<b>Ryder, John D.</b>	<b>Engineering Electronics with Industrial Applications &amp; Control</b>	<b>621.3 RYD</b>		<b>8</b>

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<b>Addison-Wesley, 1992</b>	<b>3</b>	<b>Gerhart</b>	<b>Fundamentals of Fluid Mechanics</b>	<b>620.106 GER</b>	<b>Thermo-fluids (1) (640343)  &amp;  Thermo-fluids (2) (640345)</b>	<b>1</b>
<b>Columbus-Merril, 1990</b>	<b>2</b>	<b>Mott</b>	<b>Applied Fluid Mechanics</b>	<b>620.106 MOT</b>		<b>2</b>
<b>Norman-Arnold, 1998</b>	<b>2</b>	<b>Idelchik</b>	<b>Fluid Dynamics of Industrial Equipment</b>	<b>620.1064 IDE</b>		<b>3</b>
<b>McGraw – Hill, 1994</b>	<b>2</b>	<b>Cengel</b>	<b>Thermodynamics</b>	<b>621.402 CEN</b>		<b>4</b>
<b>John–Wiley&amp; Sons, 1991</b>	<b>2</b>	<b>Sonntag</b>	<b>Introduction to Thermodynamics</b>	<b>621.402 1SON</b>		<b>5</b>
<b>Longman, 1993</b>	<b>3</b>	<b>Joel</b>	<b>Basic Engineering Thermodynamics</b>	<b>621.402 1JOE</b>		<b>6</b>
<b>Longman, 1993</b>	<b>2</b>	<b>Mcconkey</b>	<b>Applied Thermodynamics for Engineering Technologists</b>	<b>621.402 MCC</b>		<b>7</b>
<b>John – Wiley &amp; Sons, 1993</b>	<b>2</b>	<b>Wylen &amp; Sonntag</b>	<b>Fundamentals of Classical Thermodynamics</b>	<b>536.7 WYL</b>		<b>8</b>
<b>Mc Graw – Hill, 1991</b>	<b>2</b>	<b>Hughes</b>	<b>Fluid Dynamics</b>	<b>532.05 HUG</b>		<b>9</b>
<b>McGraw – Hill, 1995</b>	<b>1</b>	<b>Wark , Kenneth</b>	<b>Advanced Thermodynamics for Engineers</b>	<b>620.4021 WAR</b>		<b>10</b>
<b>Prentice Hall, 1992</b>	<b>1</b>	<b>Taine</b>	<b>Heat Transfer</b>	<b>536.2 TAI</b>		<b>11</b>
<b>Mc-Graw Hill, 1993</b>	<b>1</b>	<b>William M.</b>	<b>Convective Heat and Mass Transfer</b>	<b>621.4022 KAY</b>		<b>12</b>

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<b>McGraw Hill 1999</b>	<b>2</b>	<b>Histand &amp; Alcristor</b>	<b>Introduction to Mechatronics &amp; Measurement Systems</b>	<b>621 HIS</b>	<b>Sensors and Actuators (640364)</b>	<b>1</b>
<b>Prentice Hall 1999</b>	<b>2</b>	<b>Bolton</b>	<b>Mechatronics: Electronic Control Systems</b>	<b>621 BOL</b>		<b>2</b>
<b>McGraw – Hill, 1989, 1994</b>	<b>2</b>	<b>Holman</b>	<b>Experimental Methods for Engineers</b>	<b>620.0078 HOL</b>		<b>3</b>
<b>McGraw – Hill, 1990</b>	<b>4</b>	<b>Doebelin</b>	<b>Measurement Systems &amp; Applications</b>	<b>681.2 DOE</b>		<b>4</b>
<b>Prentice Hall, 1990</b>	<b>5</b>	<b>Helfrick, Cooper</b>	<b>Modern Electronic Instrumentation &amp; Measurements Techniques</b>	<b>621.38154 HEL</b>		<b>5</b>
<b>John – Wiley &amp; Sons, 1993</b>	<b>2</b>	<b>Dally , Riley</b>	<b>Instrumentation for Engineering Measurements</b>	<b>681.2 DAL</b>		<b>6</b>
<b>London, 1990</b>	<b>2</b>	<b>Collett, Hope</b>	<b>Engineering Measurements</b>	<b>620.0044 COL</b>		<b>7</b>
<b>Dhaptan Rai &amp; Sons, 1994</b>	<b>1</b>	<b>Gupta</b>	<b>Engineering Metrology</b>	<b>620.287 GUP</b>		<b>8</b>
<b>Simon &amp; Schuster , 1974</b>	<b>1</b>	<b>Klein</b>	<b>The World of Measurements</b>	<b>389 KLE</b>		<b>9</b>
<b>Prentice Hall, 1990</b>	<b>5</b>	<b>Helfrick Copper</b>	<b>Modern Electrical Instrumentation and Measurement Techniques</b>	<b>621.38154 HEL</b>		<b>10</b>
<b>Prentice Hall, 1988</b>	<b>1</b>	<b>C. Barney</b>	<b>Intelligent Instrumentation Microprocessor Applications in Measurement Control</b>	<b>681.2 BAR</b>		<b>11</b>

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<b>Saunders Publishing 1990</b>	<b>2</b>	<b>Mcgillem &amp; Cooper</b>	<b>Continuous and Discrete Signals &amp; System Analysis</b>	<b>621.3822 MAC</b>	<b>Digital Signal Processing Systems (640580)</b>	<b>1</b>
<b>Prentice-Hall 1990</b>	<b>4</b>	<b>S. Soliman M. Srinath</b>	<b>Continuous and Discrete Signals &amp; System</b>	<b>003.8 SOL</b>		<b>2</b>
<b>Addision-Wesley, Inc. 1990</b>	<b>3</b>	<b>I. Jackson</b>	<b>Signals and Systems Continuous &amp; Discrete</b>	<b>621.3822 JAC</b>		<b>3</b>
<b>McGraw-Hill 88</b>	<b>2</b>	<b>KUC, Roman</b>	<b>Introduction to DSP</b>	<b>621.3822</b>		<b>4</b>
<b>John-Wiley 1986</b>	<b>2</b>	<b>Ludeman</b>	<b>Fundamentals of DSP</b>	<b>621.3822 LUD</b>		<b>5</b>
<b>Macmillan, Second Edition 1990</b>	<b>1</b>	<b>Ziemer, Tranter, Fannin</b>	<b>Signal and Systems Continuous &amp; Discrete</b>	<b>621.3822 ZIE</b>		<b>6</b>

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<b>2<sup>nd</sup> edition 2004. Publisher Elsevier / Newnes</b>	<b>4</b>	<b>by Martin Bates</b>	<b>PIC Microcontrollers: an introduction to microcontrollers</b>	<b>004.165 BRE</b>	<b>Microprocessor Systems  (640474)</b>	<b>1</b>
<b>Prentice Hall 2002</b>	<b>2</b>	<b>Gaonker</b>	<b>Microprocessor Architecture, Programming, and Applications with the 8085</b>	<b>004.165 GAO</b>		<b>2</b>
<b>PWS Publishing 1997</b>	<b>2</b>	<b>Clements</b>	<b>6800 Hardware, Software, and Interfacing</b>	<b>004.165 CLE</b>		<b>3</b>
<b>McGraw – Hill 1985</b>	<b>2</b>	<b>Taub, Herbert</b>	<b>Digital Circuits and Microprocessors</b>	<b>621.3815 TAU</b>		<b>4</b>
<b>McGraw – Hill 1987</b>	<b>2</b>	<b>Hayes, John P.</b>	<b>Digital System Design and Microcomputers</b>	<b>004.16 HAY</b>		<b>5</b>
<b>Cambridge, 1995</b>	<b>1</b>	<b>Bell, Stuart</b>	<b>Embedded Micro Processor Systems: Real World Design</b>	<b>629.89 BAL</b>		<b>6</b>
<b>E. Arnold, 1995</b>	<b>2</b>	<b>Cook, Barry</b>	<b>Computer Peripherals (3<sup>rd</sup> /ed)</b>	<b>004.7 COO</b>		<b>7</b>
<b>Forest, Illinois : Glencoe 1993</b>	<b>1</b>	<b>Hall, Douglas V.; Rood, Andrew L.</b>	<b>Microprocessors and interfacing programming and hardware</b>	<b>004.165 HAL</b>		<b>8</b>



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<b>McGraw-Hill 1997</b>	<b>2</b>	<b>Alan Crispin</b>	<b>Programmable Logic Controllers &amp; their Engineering Applications</b>	<b>629.895 CRI</b>	<b>Programmable Logic Controllers (640475)</b>	<b>1</b>
<b>Newness 1996</b>	<b>2</b>	<b>Bolton</b>	<b>Programmable Logic Controllers An introduction</b>	<b>629.895 BOL</b>		<b>2</b>
<b>Prentice-Hall</b>	<b>2</b>	<b>Metzger, Daniel L.</b>	<b>Microcomputer Electronics</b>	<b>621.3916 MET</b>		<b>3</b>
<b>Bule Ridge 1989</b>	<b>2</b>	<b>Leibson and Steve</b>	<b>The hand book of Microcomputer Interfacing</b>	<b>621.3981 LEI</b>		<b>4</b>
<b>Arnold 1997</b>	<b>1</b>	<b>Costanzo, M</b>	<b>Programmable Logic Controller: the industrial computers</b>	<b>E011605</b>		<b>5</b>
<b>Eggebrecht, 1990</b>	<b>1</b>	<b>Eggebrecht, Lewis C.</b>	<b>Interfacing to the IBM personal computer</b>	<b>004.165 EGG</b>		<b>6</b>
<b>Forest, Illinois : Glencoe 1993</b>	<b>2</b>	<b>Hall, Douglas V.; Rood, Andrew L.</b>	<b>Microprocessors and interfacing programming and hardware</b>	<b>004.165 HAL</b>		<b>7</b>
<b>Prentice-Hall</b>	<b>1</b>	<b>Triebal ,Walter A.</b>	<b>DX Microprocessor Hardware, Software and interfacing</b>	<b>004.165 TRI</b>		<b>8</b>
<b>Chalers E. Merril,1984</b>	<b>1</b>	<b>Barry B. Brey</b>	<b>Interfacing and applications</b>	<b>004.16 BRE</b>		<b>9</b>
<b>Arnold 1997</b>	<b>1</b>	<b>Ridely, JE</b>	<b>Introduction to PLC</b>	<b>E011599</b>		<b>10</b>
<b>Prentice Hall 1996</b>	<b>1</b>	<b>Perez, A</b>	<b>PLC device and logic controllers</b>	<b>E010243</b>		

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<b>Addison Wesley 1992</b>	<b>3</b>	<b>Taylor</b>	<b>Computer Aided Design</b>	<b>E006160</b>	<b>CAM/CAD (640581)</b>	<b>1</b>
<b>Mechigan Society of Mfg Engr</b>	<b>2</b>	<b>Lynch</b>	<b>Managing Computer Numerical Control Operations</b>	<b>E020088</b>		<b>2</b>
<b>McGraw Hill 1987</b>	<b>2</b>	<b>Voisinet</b>	<b>Computer Aided Drafting and Design</b>	<b>E006152</b>		<b>3</b>
<b>Prentice Hall 1984</b>	<b>2</b>	<b>Groover</b>	<b>CAD/CAM computer aided design and mfg</b>	<b>E002949</b>		<b>4</b>
<b>Howard Co. 1986</b>	<b>3</b>	<b>Bowman</b>	<b>Understanding CAD/CAM</b>	<b>E000214</b>		<b>5</b>
<b>Cassell , 1990</b>	<b>1</b>	<b>Gibbs , David</b>	<b>An Introduction to CNC Machining</b>	<b>621.902 3GIB</b>		<b>6</b>
<b>Englewood Cliffs, 1989</b>	<b>1</b>	<b>C. Chao-Hwa, M. A. Melkanoff</b>	<b>NC Machine Programming and Software Design</b>	<b>670.427 CHA</b>		<b>7</b>
<b>McGraw-Hill, 1985</b>	<b>1</b>	<b>T.K. Kundra, P. N. Rao</b>	<b>Numerical Control and Aided Manufacturing</b>	<b>670.427 KUN</b>		<b>8</b>

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<b>John-Wiley &amp; Sons 1987</b>	<b>3</b>	<b>Mabie</b>	<b>Mechanics and Dynamics of Machinery.</b>	<b>621.8 MAB</b>	<b>Mechanics of Machines (640352)</b>	<b>1</b>
<b>Mc Graw-Hill</b>	<b>2</b>	<b>Timoshenko</b>	<b>Engineering Mechanics.</b>	<b>620.1 TIM</b>		<b>2</b>
<b>Edward-Arnold 1984</b>	<b>3</b>	<b>J. Hannah</b>	<b>Mechanics of Machines</b>	<b>621.811 HAM</b>		<b>3</b>
<b>Mc Graw-Hill 1995</b>	<b>3</b>	<b>Joseph, E. Shigly, John J.,</b>	<b>Theory of Machines and Mechanisms.</b>	<b>621.8 SHI</b>		<b>4</b>
<b>Dhanpat Rai &amp; Sons 1990</b>	<b>1</b>	<b>Shah</b>	<b>Theory of Machines</b>	<b>621.8 SHA</b>		<b>5</b>
<b>John-Wiley &amp; Sons 1987</b>	<b>1</b>	<b>Morison,Crossland</b>	<b>An Introduction to Mechanics of Machines.</b>	<b>621.81 MOR</b>		<b>6</b>

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<b>Pws-Kent Pub, 1992</b>	<b>2</b>	<b>Logan</b>	<b>A First course in the finite Element Method</b>	<b>620.001515353 LOG</b>	<b>Mechanical Design (640353)</b>	<b>1</b>
<b>Mac Millan, 1992</b>	<b>3</b>	<b>Mott</b>	<b>Machine Elements in Mechanical Design</b>	<b>621.815 MOT</b>		<b>2</b>
<b>Mc Graw-Hill, 1991</b>	<b>2</b>	<b>Dieter</b>	<b>Engineering Design</b>	<b>620.0042 DIE</b>		<b>3</b>
<b>Mc Graw-Hill, 1991</b>	<b>2</b>	<b>S.E. Edwards</b>	<b>Fundamentals of Mechanical Component Design</b>	<b>621.815 EDW</b>		<b>4</b>
<b>Mc GrawHill, 89</b>	<b>2</b>	<b>Shigley</b>	<b>Mechanical Engineering Design</b>	<b>621.815SHI</b>		<b>5</b>
<b>Mac Millan, 1975</b>	<b>1</b>	<b>Deutschaman</b>	<b>Machine Design</b>	<b>621.815DEU</b>		<b>6</b>

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<b>Addison – Wesley1990</b>	<b>2</b>	<b>Rao</b>	<b>Mechanical Vibrations</b>	<b>620.3 RAO</b>	<b>Mechanical Vibrations (640434)</b>	<b>1</b>
<b>John – Wiley &amp; Sons, 1989</b>	<b>2</b>	<b>Steidel</b>	<b>An Introduction to Mechanical Vibrations</b>	<b>620.3 STE</b>		<b>2</b>
<b>Prentice – Hall ,</b>	<b>2</b>	<b>Tse, Morse</b>	<b>The Mechanical Vibrations : Theory &amp; Applications</b>	<b>620.3 STE</b>		<b>3</b>
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