

**NANYANG TECHNOLOGICAL UNIVERSITY
SCHOOL OF MATERIALS SCIENCE & ENGINEERING**

MS2004 MATERIALS STRUCTURE & MECHANICAL BEHAVIOUR

Prescribed Textbooks

Thomas H. Courtney, *Mechanical Behavior of Materials*, Singapore, McGraw-Hill, 2000, 2nd edition
(Call no: TA405.C865 2000)

Donald R. Askeland and Pradeep P Phulé, *The Science and Engineering of Materials*, Thomson
(Brooks/Cole), 5th edition (TA403.A834 2006)

Other References

Kelly, G.W. Groves and P. Kidd, *Crystallography and Crystal Defects*, John Wiley, 2000
(QD931.K29 2000)

R. Hertzberg, *Deformation and Fracture Mechanics of Engineering Materials*, John Wiley, 1996,
2nd Edition (TA417.6.H576 1996)

MS2005 MECHANICS OF MATERIALS

Prescribed Textbooks

R.C Hibbeler, *Statics and Mechanics of Materials*, Prentice Hall, 2004 (Call no: TA405.H624S 2004A)

William F Riley, Leroy D Sturges and Don H Morris, *Statics and Mechanics of Materials*, 2nd Edition,
John Wiley, 2001 (TA405.R573S 2002)

Other References

F.P.Beer, E.R. Johnson Jr, and J.T.DeWolf, *Mechanics of Materials*, McGrawhill, 5th edition, 2006
(TA405.B415 2009)

MS2006 THERMODYNAMICS & KINETICS OF MATERIALS

Prescribed Textbooks

Robert T. DeHoff, *Thermodynamics in Materials Science*, CRC PRESS, 2006.
(Call no: TA403.6.D323 2006)

Taylor & Francis, *Introduction to the Thermodynamics of Materials*, 5th Edition, 2008.
(TN673.G248 2008)

Other References

D.A. Porter and K.E. Easterling, *Phase Transformations in Metals and Alloys*, Chapman & Hall
(TN690.P844 2009)

Swalin, *Thermodynamics of Solids*, 2nd Edition.(QD937.S971)

David Ragone, *Thermodynamics of Materials*, (TA418.52.R144 VI, TA418.52.R144 V2)

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MS2008 ELECTRON, MAGNETIC & OPTICAL PROPERTIES OF MATERIALS

Prescribed Textbook:

S. O. Kasap, *Principles of Electronic Materials and Devices*, McGraw-Hill Education (Asia), 2006, 3rd edition (Call no: TK453.K19 2006)

MS2900 ESSENTIAL MATHEMATICS (SEMESTER 1 ONLY)

Prescribed Textbook:

Anton, *Calculus with Analytic Geometry*, 5th Edition, John Wiley & Sons, Inc, 1995
(Call no: QA303.A634 1995)

MS2901 ESSENTIAL MATERIALS SCIENCE (SEMESTER 1 ONLY)

Prescribed Textbook:

William D. Callister, *Materials Science and Engineering: An Introduction*, 7th Edition, 2007
(Call no: TA403.C162 2007)

Other Reference

James Shackelford, *Introduction to Materials Science for Engineers*, 7th Edition, 2007
(TA403.S524 2009)

MS2010 POLYMERS & COMPOSITES

Other Reference

Fried J. R., *Polymer Science and Technology*, Prentice Hall, 2nd Edition, 2003
(Call no: QD381.F899 2003)

RJ Young & PA Lovell, *Introduction to Polymers*, Chapman & Hall, 2nd Edition, 1992
(QD381.475 1991)

Rosen, Stephen L., *Fundamental principles of polymeric materials*, John Wiley, 2nd Edition 1993
(TA455.P58R813 1993)

MS2030 HRM & ENTREPRENEURSHIP

Prescribed Textbooks

Dessler, G., *Management: Leading People and Organisation in the 21st Century*. 2nd Edition, Prentice Hall (Call no: HD31.D475ML 2001)

Zimmerer, T. W., & Scarborough, N. M. , *Entrepreneurship: Essentials of Entrepreneurship and Small Business Management*, 4th edition, Prentice Hall (HD62.7.Z72E 2008)

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Other References

Collins, James & Porras, Jerry, *Built To Last: Successful Habits of Visionary Companies*, Harper Business, 2002 (HF5386.C712 2002)

George, Stephen, *The Baldrige Quality System*, Wiley. 1992 (HD62.15.G349B)

Senge, Peter, *The Fifth Discipline: The Art And Practice of The Learning Organization*, Doubleday, 2006 (HD58.9.S476 2006)

Smilor, Raymond, et al, eds, *Leadership And Entrepreneurship: Personal And Organisational Development In Entrepreneurship Ventures*, Greenwood Publishing, 1996 (HD31.L434)

Ulrich, David, et al, eds, *Tomorrow's HR Management: 48 Thought Leaders Call For Change*, John Wiley, 1997 (HF5549.T661)

MS3001 METALLIC AND CERAMICS MATERIALS

Prescribed Textbooks

D. Henkel and A. Pense, *Structure and properties of engineering materials*, McGraw Hill, 2001, 5th Edition (Call no: TA403.H513)

R Smallman and R. Bishop, *Modern Physical Metallurgy and Materials Eng Science, Process, Application*, Butterworth-Heinemann, 7th Edition 1999 (TN690.S635 2007)

M. Barsoum, *Fundamentals of Ceramics*, The McGraw-Hill Companies, Inc., 1997. (TP807.B282 2003)

Other References

B.K. Agrawal, *Introduction to engineering materials*, McGraw Hill, 1988 (TA403.A277)

A.J. Moulson and J.M. Herbert, *Electroceramics: Materials, Properties, and Applications*, Chapman and Hall, 1990, 2nd Edition (TK7871.15.C4M926 2003)

R.C. Buchanan, *Ceramic Materials for Electronics: Processing, Properties, and Applications*, Marcel Dekker Inc., 1991 (TK7871.15C4C411 1991)

D.W. Richerson, *Modern Ceramic Engineering*, 3rd edition, Marcel Dekker, Inc., 2000 (TP807.R529 2006)

L.L. Hench and J.K. West, *Principles of Electronic Ceramics*, John Wiley & Sons, 1990 (TK7871.15.C4.H494)

W.D. Kingery, H.K. Bowen, and D.R. Uhlmann, *Introduction to Ceramics*, John Wiley & Sons, 2nd edition, 1991 (TP807.K54 1991)

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MS3002 ADVANCED MATERIALS PROCESSING

Prescribed Textbooks:

James D. Plummer, Michael D. Deal, Peter B. Griffin, *Silicon VLSI Technolgy – Fundamentals, Practice and Modeling*, Upper Saddle River, Pearson – Prentice Hall, 2000, International (Call no: TK7874.75.P735)

S. M. Sze, *Semiconductor Devices (physics and Technology)*, USA, John Wiley & Sons, 2002, 2nd edition (TK7871.85.S997 2002)

Other References

S. Campbell, *Fabrication Engineering at the Micro and Nanoscale*, Oxford, 3rd Edition 2008 (TK7871.85.C191F)

S. M. Sze, *VLSI Technology, VLSI Technology*, 1988, McGraw Hill, 2nd Edition (TK7874.V871VT 1988)

Y. Chang and S. M. Sze, *ULSI Technology*, 1996, McGraw Hill (TK7874.76U46)

S. K.Ghandhi, *VLSI Fabrication Principles: Silicon & Gallium Arsenide*, 1994, John Wiley (TK7874G411)

H. H. Lee, *Fundamentals of Microelectronics Processing*, 1990, McGraw Hill (TK7874.L478)

MS3003 MATERIALS FAILURE

Prescribed Textbooks

R. W. Hertzberg, *Deformation and Fracture Mechanics of Engineering Materials*, John Wiley & Sons, 1996, 4th Edition (Call no: TA417.6.H576 1996)

K. R. Trethewey and J. Chamberlain, *Corrosion for Science and Engineering*, 2nd ed., Longman, 1995(TA462.T799 1995)

Milton Ohring, *Reliability and Failure of Electronic Materials and Devices*, Academic Press, 1998, 2nd Edition (TK7870.23.H38)

Other Reference

Denny Jones, *Principles and Prevention of Corrosion*, 2nd Edition, Prentice-Hall, 1996 (TA462.J76 1996)

E. Rabinowicz, *Friction and Wear of Materials*, 2nd Edition, John Wiley & Sons, 1995. (TA403.6.R116)

J.A. Collins, *Failure of Materials in Mechanical Design*, 2nd Edition, John Wiley & Sons, 1993. (TA460.C712 1993)

Mars G. Fontana, *Corrosion Engineering*, 3rd Edition. (TA418.74.F679)

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Ludwig Reimer, *Scanning Electron Microscopy: Physics of Image Formation and Microanalysis*, 2nd Edition, Springer, 1998. (QH212.S3.R363)

Massa Werner, *Crystal Structure Determination*, 2nd Edition, Springer, 2004. (QD945.M414)

Krawitz, Aaron D., *Introduction to Diffraction in Materials Science and Engineering*, John Wiley, 2001. (TA417.25.K91)

Atkins P.W., *Physical Chemistry*, 8th Edition, Oxford University, 2006. (QD453.3.A874 2006)

Housecroft, Catherine E, *Inorganic Chemistry*, 3rd Edition, Pearson, 2008. (QD151.3.H842 2008)

MS4003 NANOMATERIALS & BIOMATERIALS

Prescribed Textbook

J.B.Park and R.S.Lakes, *Biomaterials, An Introduction*, 3rd Edition, Plenum Press, 2007.
(Call no: R857.M3P235 2007)

J.B.Parks and J.D.Bronzino, *Biomaterials: Principles and Applications*, CRC Press, 2003.
(R857.M3B615)

B.D. Ratner and A.S.Hoffmann, *Biomaterials Science: An Introduction to Materials in Medicine*, 2nd Edition, 2004. (R857.M3B615B 2004)

Other References

Dee, Puleo and Bizios, *Tissue-Biomaterial Interactions*, Wiley-Liss, 2002. (R857.M3.D311)

J.Black, Marcel Dekker, *Biological Performance of Materials: Fundamentals of Capability*, 4th Edition, CRC, 2006. (R857.M3.B627 2006)

D. Fennell Evans and Hakan Wennerstrom, *The Colloidal Domain – Where Physics, Chemistry, Biology and Technology Meet*, 2nd Edition, Wiley-VCH. (QD549.E92)

Cao Guozhong, *Nanostructures and Nanomaterials – Synthesis, Properties and Applications*, Imperial College Press, 2004 (QC176.8.N35.C235)

Kenneth J. Klabunde, *Nanoscale Materials in Chemistry*, Wiley-Interscience, 2001.
(TA418.9.N35.N186NM1)

Charles P. Poole, *Introduction to Nanotechnology*, Wiley-Interscience, 2003. (T174.7.P822)

Becker W, Kleinsmith L, Hardin J and Bertoni G, *The World of the Cell*, 7th Edition, Pearson, 2009.
(QH581.B396 2009)

MS4002 QUALITY CONTROL

Prescribed Textbook

William Navidi, *Statistic for Engineers and Scientists*, 2nd Edition, McGraw Hill, 2008.
(Call no: QA276.4.N325 2008)

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SCHOOL OF MATERIALS SCIENCE & ENGINEERING**

Other References

Walpole et al, *Probability and Statics for Engineers and Scientists*, 8th Edition, Pearson, 2007 (TA340.W219 2007)

MS4030 ENGINEERS & SOCIETY

Prescribed Textbook

Turnbull, C.M., *A History of Singapore 1819-1988*, 2nd Edition, Singapore: Oxford Univ Press, 1989 (Call no: DS599.6.T942 1989)

Lee, Edwin, *The British As Rulers: Governing Multiracial Singapore 1867-1914*, Singapore University Press, 1991. (JQ745.S52.L477)

Yeoh, Brenda S.A., *Contesting Space: Power Relations and The Urban Built Environment in Colonial Singapore, Kuala Lumpur*, Oxford University Press, 1996. (HT243.S55.Y46)

Dale, Ole Johan, *Urban Planning in Singapore: The Transformation of A City*, Oxford University Press, Kuala Lumpur, 1999. (HT169.S55.D139)

Christopher Tremewan, *The Political Economy of Social Control in Singapore*, London, Macmillan Press LTD. With ST. Anthony's College, Oxford, 1994 (HN700.67.T789)

Lai Ah Eng, *Meanings of Multiethnicity: A Case Study of Ethnicity and Ethnic Relations In Singapore*, Kuala Lumpur: Oxford University Press, 1995. (DS610.L185)

Bishop, Ryan, John Philips and Wei-wei Yeo, *Beyond Description: Singapore Space Historicity*, London and New York: Routledge, 2004. (NA1530.S55.B573)

Yong Mun Cheong, *Asian Traditions And Modernization: Perspectives From Singapore*, Singapore Eastern Universities Press, 2004. (DS609.9.A832 1992)

George, Cherian, *Singapore: The Air-Conditioned Nation: Essays on The Politics of Comfort and Control 1990-2000*, Singapore: Landmark Books, 2000. (DS609.G347)

Chua Beng Huat, *Communitarian Ideology and Democracy in Singapore*, London and New York: Routledge, 1995. (JQ745.S559.C559)

You Poh Seng and Lim Chong Yah, *Singapore: Twenty-Five Years of Development*, Singapore: Nan Yang Xing Zhou LianHe Zao Bao, 1984. (DS598.S7.S617)

Regnier, Philip, *Singapore: City-State in South East Asia*, Kuala Lumpur: Abdul Majeed & CO., 1992 (HF3790.8.R342)

Hussin Mutalib, *Parties and Politics: A Study of Oppositions Parties and The PAP in Singapore*, Singapore: Eastern Universities Press, 2003. (JQ1063.A979.H972)

Raj Vasil, *Governing Singapore: Democracy and National Development*, Singapore: Allen and Unwin, 2000. (JQ1063.A979.V334)

**NANYANG TECHNOLOGICAL UNIVERSITY
SCHOOL OF MATERIALS SCIENCE & ENGINEERING**

**SINGAPORE IN 21ST CENTURY: CHALLENGES IN INTERNATIONAL RELATIONS
AND IN A GLOBAL ECONOMY**

Chang Li Lin, *Perspectives on Singapore 2002*, Singapore: Times Academic Press & Institute of Policy Studies, 2002. (HC445.8.P467 2002)

Ooi Giok Ling & Brian J. Shaw, *Beyond The Port City: Development and Identity in 21st Century, Singapore*, Singapore: Prentice Hall, 2004. (DS610.7.I59)

Yap Mui Teng, *Singapore Perspectives 2003*, Singapore: Eastern Universities Press, 2003. (DS608.3.S617 2003)

MS4500 MICROELECTRONICS PACKAGING (SEMESTER 2 ONLY)

Prescribed Textbook

Rao R. Tummala, *Fundamentals of Microsystems Packaging*, McGraw-Hill, 2001
(Call no: TK7874.T925)

Other References

Tummala, *Microelectronics Packaging Handbook*, Chapman & Hall, 1997 (TK7874.M626MP 1997)

E.A. Amarasekera and F. N. Najm, *Failure Mechanisms in Semiconductor Devices*, 2nd Edition, John Wiley and Sons, 1997 (TK7871.852.A512)

G. Sabnis, *VLSI Electronics Microstructure Science*, Vol 22, Academic Press, 1990. (TK7874.V871 V22)

Finn Jensen, *Electronic Component Reliability*, John Wiley and Sons, 1995 (TK7870.J54)

Milton Ohring, *Reliability and Failure of Electronic Materials & Devices*, 2nd Edition, Academic Press, 1998 (TK7870.23.H38)

MS4501 PRINCIPLES OF SEMICONDUCTOR DEVICES (SEMESTER 1 ONLY)

Prescribed Textbook

S.M. Sze, *Semiconductor Devices: Physics & Technology*, 2nd Edition, John Wiley & Sons, 2002.
(Call no: TK7871.85.S997 2002)

Other References

S.A. Campbell, *Fabrication Engineering at The Micro and Nanoscale*, 3rd Edition, Oxford University Press, 2001. (TK7871.85.C191F)

MS4503 MICROELECTRONIC PROCESS INTEGRATION (SEMESTER 2 ONLY)

Prescribed TextBooks

S. M. Sze, *VLSI Technology*, 2nd Edition, McGraw-Hill, 1988 (Call no: TK7874.V871VT 1988)

S. Wolf, *Silicon Processing*, Vol.3 – The Submicron MOSFET, Lattice Press 1995. (TK7874.W855 V3)

**NANYANG TECHNOLOGICAL UNIVERSITY
SCHOOL OF MATERIALS SCIENCE & ENGINEERING**

S. A. Campbell, *Fabrication Engineering at The Micro and Nanoscale*, 3rd Edition, Oxford University Press, 2008. (TK7871.85.C191F)

Other References

S.M. Sze, *Semiconductor Devices: Physics & Techonology*, 2nd Edition, John Wiley & Sons, 2002. (TK7871.85.S997 2002)

MS4510 ADVANCED BIOMATERIALS (SEMESTER 2 ONLY)

Prescribed TextBook

L.L.Hench and J. Wilson, *An Introduction to Bioceramics*, World Scientific, 1993.

(Call no: R857.C4I61I)

B.D. Ratner, A.S. Hoffman, F.J. Schoen and J.E. Lemons, *Biomaterials Science -- An Introduction to Materials in Medicine*, 2nd Edition, Academic Press, 2004 (R857.M3.B615B 2004)

MS4520 POLYMER TECHNOLOGY (SEMESTER 1 ONLY)

Other References

D. H. Morton-Jones, *Polymer Processing*, Chapman & Hall, 1989 (Call no: TP1087.M889)

R. J. Crawford, *Plastics Engineering*, 3rd Edition, Pergamon Press, 1998. (TP1120.C899 1998)

MS4523 POLYMER SCIENCE-CHEMISTRY (SEMESTER 1 ONLY)

Other References

Wayne Sorenson, Fred Sweeny, Tod W. Campbell, *Preparative Methods of Polymer Chemistry*, 3rd Edition, John Wiley, 2001. (Call no: QD281.S713)

Malcom P. Stevens, *Polymer Chemistry, An Introduction*, 3rd Edition, Oxford University Press, 1999. (QD381.S845)

Robert J. Young, *An Introduction to Polymers*, 2nd Edition, Chapman and Hall, 1991. (QD381.Y75 1991)

MS4524 POLYMER PHYSICS (SEMESTER 2 ONLY)

Other References

Leslie Howard Sperling, *Introduction to Physical Polymer Science*, 4th Edition, Wiley-Interscience, 2006. (Call no: QD381.S749 2006)

P.-G. de Gennes, *Scaling Concepts in Polymer Physics*, Cornell University Press, 1979 (QD381.G334)

David I. Bower, *Polymer Physics*, Cambridge University Press, 2002. (QD381.8.B786)

Ulf W. Gedde, *Polymer Physics*, 1st Edition, Chapman & Hall, 1995 (QC173.4.P65.G295)

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MS4525 ENERGY AND MATERIALS (SEMESTER 1 ONLY)

Other References

Ed. D.Y.Goswami and F.Kreith, *Energy Conversion*, CRC Press, 2008. (call no: TK2896.E56)

R.D.Begamudre, *Energy Conversion Systems*, New Age International Publishers, 2000
(TK2896.B416)

MS4526 PHOTOVOLTAICS DEVICES AND ENERGY STORAGE

Prescribed Textbook

Nelson, J., *The Physics of Solar Cells*, Imperial College Press, 2003. (Call no: TK2960.N427)

Linden, D and Reddy T.B, *Handbook of Batteries*, 3rd Edition, McGraw Hill, 2003.
(TK2901.H236 2002)

B.E.Conway, *Electrochemical Supercapacitors*, Scientific Fundamentals and Technological Applications, Kluwer Academic/Plenum Publishers (TK2941.C767)

MS4553 ADVANCE CHARACTERISATION OF MATERIALS (SEMESTER 1 ONLY)

Prescribed Textbook

A. West, *Solid State Chemistry and Its Application*, Wiley, 1984. (Call no: QD478.W516S)

B.D. Cullity and S.R. Stock, *Elements of X-Ray Diffraction*, 3rd Edition, Prentice Hall, 2001.
(QC482.D5.C967 2001)

D.B. Williams, C.B. Carter, *Transmission Electron Microscopy – A Textbook for Materials Science*, Plenum Press, New York, 1999. (TA417.23W716)

Andrew Putnis, *An Introduction to Mineral Sciences*, Cambridge University Press, 1992.
(QE363.2.P993)

Other References

Giacovazzo Carmelo, *Fundamentals of Crystallography*, 2nd Edition, Oxford University Press, 2002.
(QD905.2.F981 2002)

Roger H., Mitchell, *Perovskites: Modern and Ancient*. (QE391.P47.M682)

Helen D., *Crystal structures: A Working Approach*, Megaw. (QD905.2.M496)

Warren, *X-ray Diffraction*, Dover, 1990. (QD945.W286)

Krawitz, Aaron D., *Introduction to Diffraction in Materials Science and Engineering*, Wiley, 2001
(TA417.25.K91)

Goldstein, *Scanning Electron Microscopy and X-ray Microanalysis*, 3rd Edition, Kluwer, 2003
(QH212.S3S283sem)

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Peter J., Goodhew, *Electron Microscopy and Analysis*, 3rd Edition, Taylor & Francis, 2001
(QH212.E4.G652E 2001)

Shindao, D., *High-Resolution Electron Microscopy for Materials Science*, Springer, 1998.
(TA417.23.S556)

Reimer, *Scanning Electron Microscopy: Physics of Image Formation and Microanalysis*, 2nd Edition,
Ludwig. (QH212.53.R363)

**MS4555 NANOSTRUCTURE OF FUNCTIONAL MATERIALS
(SEMESTER 2 ONLY)**

Other References

Cao guozhong, *Nanostructures and Nanomaterials*, Imperial College Press, 2004
(Call no: QC176.8.N35.C235)

Hornyak, Gabor Louis., *Introduction to Nanoscience*, CRC press, 2008. (QC176.8.N35.I61NT)

MS4556 THIN FILM (SEMESTER 1 ONLY)

Prescribed Textbooks

D.L. Smith, *Thin-film Deposition, Principles and Practice*, McGraw-Hill, 1995
(Call no: TA418.9.T45.S645)

Milton Ohring, *The Materials Science of Thin Films*, Academic press, 2nd Edition, 2002.
(TA418.9.T45H38 2002)

C. Kittel, *Introduction to Solid State Physics*, 8th Edition, Wiley, 2005. (QC176.K62 2005)

MS8001 MANAGEMENT WITH HUMOUR (SEMESTER 1 ONLY)

Prescribed Textbook

Robbins S. P. & Coulter M., *Management*, 10th Edition, Pearson, 2009 (Call no: HD31.R636 2009)

MS8202 SYMMETRY & CRYSTALS

Other References

Mak, Thomas C. W., *Crystallography in Modern Chemistry: A Resource Book of Crystal Structures*.
(Call no: QD945.M235)

Giacovazzo Carmelo, *Fundamentals of Crystallography*, 2nd Edition, Oxford University Press, 2002.
(QD905.2.F981 2002)

Helen D., *Crystal structures: A Working Approach*, Megaw. (QD905.2.M496)

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J. Rosen, *Symmetry Discovered: Concepts and Applications in Nature and Science*, Dover Publications, Inc., Mineola, New York, 1998. (Q172.5.S95R813)

D.E. Sands, *Introduction to Crystallography*, Dover Publications, Inc., Mineola, New York, 1993 (QD905.2.S221)

D. Schattschneider, M.C. Escher, *Visions of Symmetry*, Abrams, New York, 2004. (NC263.E83.S312)

I. Hargittai & M. Hargitta, *Symmetry: A Unifying Concept*, Shelter Publications, Inc., Bolinas, California, 1994. (Q172.S95.H279)

Atkins, P.W., *Physical Chemistry*, 8th edition. (QD453.3.A874 2006)

Müller, U., *Inorganic Structural Chemistry*. (QD151.3.M958)

Marc de Graef, Micheal E. McHenry, *Structure of Materials: An Introduction to Crystallography*, Cambridge University Press, 2007. (TA403.D278)