

CAMBRIDGE UNIVERSITY ENGINEERING DEPARTMENT

PART IB BOOKLIST 2011/12

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PAPER 1

<u>MECHANICS</u> [Prof D Cebon] Lent		
*BEER, F.P. & JOHNSTON, E.R.	VECTOR MECHANICS FOR ENGINEERS: STATICS AND DYNAMICS McGraw-Hill 7 th edition 2004	RA.207
*HIBBELER, R.C.	ENGINEERING MECHANICS – DYNAMICS (SI UNITS) Prentice Hall 3 rd edition 2004	RA.202
*MERIAM, J.L. & KRAIGE, L.G.	ENGINEERING MECHANICS. VOL.2: DYNAMICS Wiley 6 th edition 2008	RA.215
*PRENTIS, J.M.	ENGINEERING MECHANICS Oxford University Press 1992 (Paperback, good introductory text)	RA.135

PAPER 2

<u>STRUCTURES</u> [Dr SD Guest] Michaelmas and Lent		
*CASE, J., CHILVER, A.H. & ROSS, C.T.F.	STRENGTH OF MATERIALS AND STRUCTURES Edward Arnold 4 th edition 1999	FG.90
*COATES, R.C., COUTIE, M.G. & KONG, F.K.	STRUCTURAL ANALYSIS Van Nostrand Reinhold 3 rd edition 1988	FJ.452
*CRANDALL, S.H., DAHL, N.C. & LARDNER, T.J.	INTRODUCTION TO THE MECHANICS OF SOLIDS, with SI Units McGraw-Hill 1972	FG.30
*KONG, F.K. & EVANS, R.H.	REINFORCED AND PRE-STRESSED CONCRETE Van Nostrand Reinhold 3 rd edition 1987	FM.413
*CALLADINE, C.R.	PLASTICITY FOR ENGINEERS Ellis Horwood 1985 (2000 reprint)	FA.127

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PAPER 3

<u>MATERIALS</u> [Dr G McShane & Dr MPF Sutcliffe] Michaelmas		
*ASHBY, M., SHERCLIFF, H. & CEBON, D.	MATERIALS: ENGINEERING, SCIENCE, PROCESSING AND DESIGN <u>Butterworth-Heinemann</u> 2 nd edition 2010 1 st available as an ebook at: http://www.myilibrary.com/?id=96251	JA.209
*ASHBY, M.F.	MATERIALS SELECTION IN MECHANICAL DESIGN <u>Butterworth Heinemann</u> 4 th edition 2010 3 rd edition available as an ebook at: http://www.myilibrary.com?id=75447	JA.208
*ASHBY, M.F. & JONES, D.R.H.	ENGINEERING MATERIALS 1 <u>Butterworth-Heinemann</u> 3 rd edition 2005 Available as an ebook at: http://www.myilibrary.com?id=75450	JA.184 4th edition available at JA.210
*ASHBY, M.F. & JONES, D.R.H.	ENGINEERING MATERIALS 2 <u>Butterworth-Heinemann</u> 3 rd edition 2006 Available as an ebook at: http://www.myilibrary.com?id=75451	JA.191
*BRAITHWAITE, N & WEAVER, G.	ELECTRONIC MATERIALS <u>Butterworth Heinemann</u> 2 nd edition 1998	JA.179
*CALLISTER, W.D.	MATERIALS SCIENCE AND ENGINEERING: AN INTRODUCTION <u>Wiley</u> 7 th edition 2003	JA.203
*EDWARDS, S.L. & ENDEAN, M.	MANUFACTURING WITH MATERIALS <u>Butterworths</u> (Open University) 1990	JA.146
*GIBSON, L.J. & ASHBY, M.F.	CELLULAR SOLIDS: STRUCTURES AND PROPERTIES <u>Cambridge University Press</u> 2 nd edition 1991	JA.161
*HERTZBERG, R.W.	DEFORMATION AND FRACTURE MECHANICS OF ENGINEERING MATERIALS <u>Wiley</u> 4 th edition 1996	JJ.316
*KALPAKJIAN, S. & SCHMID, S.R.	MANUFACTURING ENGINEERING AND TECHNOLOGY <u>Pearson Prentice Hall</u> 5 th edition SI units 2006	BN.241
*NEWAY, C. & WEAVER, G.	MATERIALS PRINCIPLES AND PRACTICE <u>Butterworths</u> (Open University) 1990	JA.150

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*SCHAFFER, J.P., <i>et al.</i>	THE SCIENCE AND DESIGN OF ENGINEERING MATERIALS <u>McGraw-Hill</u> 2 nd edition 1999	JA.170
*WEIDMANN, G., LEWIS, N. & REID, N.	STRUCTURAL MATERIALS <u>Butterworths</u> (Open University) 1990	JA.133

PAPER 4

<u>THERMOFLUID MECHANICS</u> [Dr MP Juniper, Dr SA Scott & Dr R Miller] Michaelmas and Lent		
*CENGEL, Y. & BOLES, M.	THERMODYNAMICS: AN ENGINEERING APPROACH <u>McGraw-Hill</u> 6 th edition 2007	VA.196
*HOLMAN, J.	HEAT TRANSFER <u>McGraw-Hill</u> 9 th edition 2002 <i>(This is the recommended book for heat transfer in Part I. A less satisfactory coverage is available in Rogers & Mayhew.)</i>	VC.182 (10 th ed. at VC.188)
*HOMSY, G.M. <i>et al.</i>	MULTI-MEDIA FLUID MECHANICS <u>Cambridge University Press</u> 2 nd edition, 2004 <i>(A collection of film clips, interspersed with theory on CD-ROM)</i>	TA.473 CD-ROM
*MASSEY, B.S., (Rev. by WARD-SMITH, J.)	MECHANICS OF FLUIDS <u>Taylor & Francis</u> 8 th edition 2005 <i>(A good introductory text)</i> Available as an ebook at: http://www.myilibrary.com?id=25661	TA.483
*MORAN, M.J. & SHAPIRO, H.N.	FUNDAMENTALS OF ENGINEERING THERMODYNAMICS <u>Wiley</u> 5 th edition (SI Units) 2006	VA.192
*ROGERS, G.F.C. & MAYHEW, Y.R.	ENGINEERING THERMODYNAMICS: WORK AND HEAT TRANSFER <u>Longman</u> 4 th edition 1992	VA.178
*SABERSKY, R.H., ACOSTA, A.J. & HAUPTMANN, E.G.	FLUID FLOW <u>Prentice Hall</u> 4 th edition 1999 <i>(Goes beyond Part I course, but useful for reference and an excellent all round text for those going on to Fluid Mechanics in Part II)</i>	TA.438
*SONNTAG, R.E., BORGNACKE, C., & VAN WYLEN, G.J.	FUNDAMENTALS OF THERMODYNAMICS <u>Wiley</u> 6 th edition 2003	VA.186
*TRITTON, D.J.	PHYSICAL FLUID DYNAMICS <u>Clarendon</u> 1988 <i>(An interesting book, but goes into more detail than required for the Part I course.)</i>	TA.363

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PAPER 5

<u>LINEAR CIRCUITS AND DEVICES</u> [Dr R McMahon] Michaelmas		
*AHMED, H. & SPREADBURY, P.J.	ANALOGUE AND DIGITAL ELECTRONICS FOR ENGINEERS <u>Cambridge University Press</u> 1984	NT.396
*SMITH, R.J. & DORF, R.C.	CIRCUITS, DEVICES AND SYSTEMS <u>Wiley</u> 5 th edition 1992	NN.405
<u>ELECTRICAL POWER</u> [Dr TA Coombs] Lent		
*BRADLEY, D.	BASIC ELECTRICAL POWER AND MACHINES <u>Chapman & Hall</u> 1994	NE.129
<u>ELECTROMAGNETIC FIELDS AND WAVES</u> [Dr AC Ferrari] Lent		
*OLVER, A.D.	MICROWAVE & OPTICAL TRANSMISSION <u>Wiley</u> 1992	NV.135

PAPER 6

<u>LINEAR SYSTEMS AND CONTROL</u> [Dr G Vinnicombe] Michaelmas		
*DISTEFANO, J.J., STUBBERUD, A.R. & WILLIAMS, I.J.	FEEDBACK AND CONTROL SYSTEMS <u>McGraw-Hill</u> 2 nd edition 1990	QC.217
*FRANKLIN, G.F., POWELL; J.D. & EMAMI-NAEINI, A.	FEEDBACK CONTROL OF DYNAMIC SYSTEMS <u>Pearson Prentice Hall</u> 5 th edition 2006	QC.261
*OPPENHEIM, A.V., WILLSKY, A.S. & NAWAB, S.H.	SIGNALS AND SYSTEMS <u>Prentice Hall</u> 2 nd edition 1997 (<i>very comprehensive</i>)	NOE.66
*ÅSTRÖM, K.J. & MURRAY, R.M.	FEEDBACK SYSTEMS: AN INTRODUCTION FOR SCIENTISTS AND ENGINEERS <u>Princeton University Press</u> , 2008	QC.269
*DORF, R.C. & BISHOP, R.H.	MODERN CONTROL SYSTEMS <u>Pearson Prentice Hall</u> 10 th edition 2005	QC.262

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<u>COMMUNICATIONS</u> [Dr A Guillén i Fàbregas] Lent		
*CARLSON, B., CRILLY, P.B. & RUTLEDGE, J.	COMMUNICATION SYSTEMS: AN INTRODUCTION TO SIGNALS AND NOISE IN ELECTRICAL COMMUNUCATION <u>McGraw-Hill</u> 4 th edition 2002	NO.310
*HAYKIN, S. & MOHER, M.	INTRODUCTION TO ANALOG AND DIGITAL COMMUNICATIONS <u>Wiley</u> 2 nd edition 2007	NO.311
*PROAKIS, J.G. & SALEHI, M.	DIGITAL COMMUNICATIONS <u>McGraw-Hill</u> 5 th edition 2008	NO.313
*SKLAR, B.	DIGITAL COMMUNICATIONS: FUNDAMENTALS AND APPLICATIONS <u>Prentice Hall</u> 2 nd edition 2001	NO.312
*DUNLOP, J. & SMITH, D.G.	TELECOMMUNICATIONS ENGINEERING <u>Chapman & Hall</u> 3 rd edition 1994	NO.223
<p><i>For a readable historical/semi-technical background to communications try BECK, A.H.W. Words and Waves (World University Library), CUED Library Shelfmark NO 28 but written before optical communications developed strongly.</i></p>		

<u>SIGNAL AND DATA ANALYSIS</u> [Prof SJ Godsill] Lent		
*BRACEWELL, R.N.	THE FOURIER TRANSFORM AND ITS APPLICATIONS <u>McGraw-Hill</u> 3 rd edition 2000	EG.32
*McCELLAN, J.H.	SIGNAL PROCESSING FIRST <u>Pearson</u> 2003	NOE.100
*OPPENHEIM, A.V., WILLSKY, A.S. & NAWAB, S.H.	SIGNALS & SYSTEMS <u>Prentice Hall</u> 2 nd edition 1997	NOE.66
*PEEBLES, P.Z.	PROBABILITY, RANDOM VARIABLES AND RANDOM SIGNAL PRINCIPLES <u>McGraw-Hill</u> 4 th edition 2001	EP.296
*PROAKIS, J.G. & MANOLAKIS, D.G.	DIGITAL SIGNAL PROCESSING <u>Prentice Hall</u> 4 th edition 2007	NOE.99

PAPER 7

<u>VECTOR CALCULUS</u> [Dr Tom Hynes] Michaelmas		
*JAMES, G. <i>et al.</i>	ADVANCED MODERN ENGINEERING MATHEMATICS <u>Pearson/Prentice Hall</u> 3 rd edition 2004	EA.180 (4 th ed. at

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		EA.192)
*RILEY, K.F., HOBSON, M.P. & BENICE, S.J.	MATHEMATICAL METHODS FOR PHYSICS AND ENGINEERING <u>Cambridge University Press</u> 3 rd edition 2006 (chapters 30 and 31) Available as ebook at: http://linux02.lib.cam.ac.uk:2048/login?url=http://cco.cambridge.org/book?id=ccol0521861535_CCOL0521861535	EA.183

<u>LINEAR ALGEBRA</u> [Dr JP Jarrett] Lent		
*GOLUB, G.H. & VAN LOAN, C.F.	MATRIX COMPUTATIONS <u>John Hopkins University Press</u> 3 rd edition 1996	ER.202
*STRANG, G.	LINEAR ALGEBRA AND ITS APPLICATIONS <u>Harcourt Brace Jovanich</u> 3 rd edition 1988	EC.62
*RILEY, K.F., HOBSON, M.P. & BENICE, S.J.	MATHEMATICAL METHODS FOR PHYSICS AND ENGINEERING <u>Cambridge University Press</u> 3 rd edition 2006 Available as ebook at: http://linux02.lib.cam.ac.uk:2048/login?url=http://cco.cambridge.org/book?id=ccol0521861535_CCOL0521861535	EA.183

<u>PROBABILITY</u> [Dr CE Rasmussen] Lent		
*RILEY, K.F., HOBSON, M.P. & BENICE, S.J.	MATHEMATICAL METHODS FOR PHYSICS AND ENGINEERING <u>Cambridge University Press</u> 3 rd edition 2006 Available as ebook at: http://linux02.lib.cam.ac.uk:2048/login?url=http://cco.cambridge.org/book?id=ccol0521861535_CCOL0521861535	EA.183

PAPER 8 – SELECTED TOPICS

<u>INTRODUCTORY BUSINESS ECONOMICS</u> [Dr M Kitson] Michaelmas		
*KITSON, M. & MICHIE, J.	THE POLITICAL ECONOMY OF COMPETITIVENESS <u>Routledge</u> 2000	BS.545
*SLOMAN, J., & SUTCLIFFE, M.	ECONOMICS <u>FT/Prentice Hall</u> 5 th edition 2003	BS.534
*SLOMAN, J. & SUTCLIFFE, M.	ECONOMICS FOR BUSINESS <u>FT/Prentice Hall</u> 3 rd edition 2003	BS.549

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<u>AEROTHERMAL ENGINEERING: Design of a Jet Engine</u> [Dr CA Hall, Dr G Pullan] Easter		
*COHEN, H., ROGERS, G.F.C. & SARAVANAMUTTO, H.I.H	GAS TURBINE THEORY <u>Longman</u> 4 th edition 1996	VK.34
*CUMPSTY, N.A.	JET PROPULSION <u>Cambridge University Press</u> 2 nd edition 2003	VN.47
*HILL, P.G. & PETERSON, C.R.	MECHANICS AND THERMODYNAMICS OF PROPULSION <u>Addison-Wesley</u> 2 nd edition 1992 (An excellent introduction)	VN.41
*ROLLS ROYCE	THE JET ENGINE <u>Rolls Royce</u> 5 th edition 2005 (Excellent practical background)	Folio VN.48

<u>ELECTRICAL ENGINEERING: Micro- and Nano-electronic Devices: What is inside your computer?</u> [Prof J Robertson & Prof WI Milne] Easter		
<u>Introductory</u>		
*CONNOR, F.R.	ELECTRONIC DEVICES: INTRODUCTORY TOPICS IN ELECTRONICS AND TELECOMMUNICATIONS <u>Edward Arnold</u> 1980 Chapters 1-5, p 108	NR.300
<u>Basic</u>		
*ALLISON, J.	ELECTRONIC ENGINEERING SEMICONDUCTORS AND DEVICES <u>McGraw-Hill</u> 1990	NR.290
*BRAITHWAITE, N. & WEAVER, G	ELECTRONIC MATERIALS <u>Butterworth Heinemann</u> 2 nd edition 1998	JA.179
*KASAP, S.O.	PRINCIPLES OF ELECTRONIC MATERIALS AND DEVICES <u>McGraw-Hill</u> 3 rd edition 2006	JA.186
*SOLYMAR, I. & WALSH, D.	ELECTRICAL PROPERTIES OF MATERIALS <u>Oxford University Press</u> 7 th edition 2004 Chapters 1,2,3-8 much more than required	JA.192
<u>Advanced</u>		
*SZE, S.M.	HIGH-SPEED SEMICONDUCTOR PHYSICS <u>Wiley</u> 1990 Advanced text parts of Part II	NR.292

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<i>Historical</i>		
*SHIVE, J.N.	THE PROPERTIES, PHYSICS AND DESIGN OF SEMICONDUCTOR DEVICES <u>Van Nostrand Reinhold</u> 1959	NR.65
*SHOCKLEY, W.	ELECTRONS AND HOLES IN SEMICONDUCTORS <u>Van Nostrand Reinhold</u> 1950	NR.23

MECHANICS & MATERIALS: Mechanical Design for Renewable Energy

[Dr DD Symons & Dr MPF Sutcliff,] Easter

*ASHBY, M.F.	MATERIALS SELECTION IN MECHANICAL DESIGN <u>Butterworth Heinemann</u> 4 th edition 2010 3 rd edition available as ebook at: http://www.myilibrary.com?id=75447	JA.208
*DET NORSKE VERITAS / RISØ NATIONAL LABORATORY (DENMARK)	GUIDELINES FOR DESIGN OF WIND TURBINES <u>Det Norske Veritas / Risø National Laboratory (Denmark)</u> 2 nd edition 2002	TI.49
*HANSEN, M.O.L.	AERODYNAMICS OF WIND TURBINES <u>Earthscan</u> 2 nd edition 2008	TI.48
*MACKAY, D.	SUSTAINABLE ENERGY WITHOUT THE HOT AIR <u>UIT Cambridge Ltd</u> 2009 Available as a free ebook online at http://www.withouthotair.com/	DE.164
*MATHEW, S.	WIND ENERGY, FUNDAMENTALS, RESOURCE ANALYSIS AND ECONOMICS <u>Springer</u> 2006 Available as an ebook via SpringerLink: http://www.springerlink.com/	DE.177

CIVIL, STRUCTURAL AND ENVIRONMENTAL ENGINEERING: Design Construction of an Underground Space

[Prof RJ Mair & Dr CJ Burgoyne] Easter

(1) *BOLTON, M.	GUIDE TO SOIL MECHANICS <u>Macmillan</u> 1979 <i>Now out of print but available from M.D. and K. Bolton c/o CUED</i>	GA.214
(2) *POWRIE, W.	SOIL MECHANICS - CONCEPTS AND APPLICATIONS <u>Spon</u> 2 nd edition 2004 Available as an ebook at: http://www.myilibrary.com?id=25678	GA.328
(3) *KONG, F.K.	REINFORCED AND PRE-STRESSED CONCRETE	FM.413

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& EVANS, R.H.	Van Nostrand Reinhold 3 rd edition 1987	
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<u>MANUFACTURING & MANAGEMENT: Bringing Technology Innovations to Market</u> [Dr THW Minshall, Dr J Moultrie & Prof I Hutchings] Easter		
*CAGAN, J & VOGEL, C.M.	CREATING BREAKTHROUGH PRODUCTS: INNOVATION FROM PRODUCT PLANNING TO PROGRAM APPROVAL <u>Financial Times/Prentice-Hall</u> 2002	BN.216
*MOORE, G.A.	CROSSING THE CHASM: MARKETING AND SELLING TECHNOLOGY PRODUCTS TO MAINSTREAM CUSTOMERS <u>Capstone</u> 2 nd edition 1998	BO.359
*LANG, J.	THE HIGH-TECH ENTREPRENEUR'S HANDBOOK: HOW TO START AND RUN A HIGH-TECH COMPANY <u>Pearson Educational</u> 2002	BA.284
*ULRICH K.T. & EPPINGER S.D.	PRODUCT DESIGN AND DEVELOPMENT <u>McGraw-Hill/Irwin</u> 4 th edition 2008	BN.252

<u>INFORMATION ENGINEERING: Photo Editing and Image Searching</u> [Prof R Cipolla, Dr J Lasenby & Prof Z Ghahramani] Easter		
*GONZALEZ, R.C. & WOODS, R.E.	DIGITAL IMAGE PROCESSING <u>Prentice Hall</u> 2 nd edition 2002	NO.306
*JAIN, A.K.	FUNDAMENTALS OF DIGITAL IMAGE PROCESSING <u>Prentice Hall</u> 1989	NO.218
*PETROU, M. & BOSDOGIANNI, P.	IMAGE PROCESSING: THE FUNDAMENTALS <u>Wiley</u> 1999	NO.298

<u>ENGINEERING FOR THE LIFE SCIENCES</u> [Prof DM Wolpert & Dr M Oyen, Dr M Lengyel, Dr G Treece] Easter		
*L.V.WANG & H-I.WU	BIOMEDICAL OPTICS: PRINCIPLES AND IMAGING <u>Wiley</u> 1 st edition 2007	DB.158

COURSEWORK PAPER

<u>SUSTAINABLE ENGINEERING</u> [Dr H. Shercliff et al.]		
No list provided.		