



ENGINEERING PHYSICS
COURSE EQUIVALENTS
1998 Edition

<i>University of Alberta</i>		<i>University of Calgary</i>	
98-Phys-A1 MAPH 343	Classical Mechanics Classical Mechanics I	PHYS 343	Intermediate Mechanics
98-Phys-A2 PHYS 309	Statistical Physics Statistical Physics I	PHYS 449	Fundamentals of Electromagnetic Fields
98-Phys-A3 PHYS 381 & PHYS 481 OR EE 315 & EE 316	Electromagnetic Theory Electromagnetic Theory I Electromagnetic Theory II Engineering Electromagnetics I Engineering Electromagnetics II	ENEL 475 & ENEL 575	Fundamentals of Electromagnetic Fields Microwave Circuits and Antennas
98-Phys-A4 PHYS 372	Quantum Mechanics Quantum Mechancis A	PHYS 443	Quantum Mechanics I
98-Phys-A5 EE 570 & EE 572	Semiconductor Devices and Circuits Large Signal and Pluse Circuits Physical Electronics	ENEL 463	Electronic Devices and CircuitsI
98-Phys-A6 PHYS 415	Solid State Physics Introduction to Condensed Matter Physics I	PHYS 507	Solid State Physics
98-Phys-A7 PHYS 362	Optics Optics		No Course Equivalent

University of Alberta

University of Calgary

98-Phys-B1	Radiation Physics No Course Equivalent	PHYS 561	Stable and Radioactive Isotope Studies, Fundamentals
98-Phys-B2	Electro-Optical Engineering EE 586 Introduction to Optical Fibre Communication	ENEL 579	Optical Fibre Communications
98-Phys-B3	Digital Systems and Computers EE 280 Introduction to Digital Electronics & EE 380 Introduction to Microprocessors & EE 480 Advanced Digital Design	ENEL 353 & ENEL 415	Digital System Design Assembly Language Programming and Interfacing
98-Phys-B4	Communications EE 390 Introduction to Communication Systems & EE 335 Signals and Transform Methods	ENEL 471	Analog Communications
98-Phys-B5	Control EE 458 Control Systems I	ENEL 441	Control Systems I
98-Phys-B6	Applied Thermodynamics and Heat Transfer MEC E 340 Applied Thermodynamics & MEC E 470 Heat Transfer	ENEL 471 & ENME 485	Heat and Mass Transfer Mechanical Engineering Thermodynamics
98-Phys-B7	Structure of Materials MATE 256 Materials Engineering II & MATE 357 Fundamentals of Physical Metallurgy	ENME 421	Materials I

Revised April 2005