

National Certificate in Mechanical Engineering (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, Toolmaking, and Electricity Supply

Level 4

Credits 270-300

This qualification has been reviewed. The last date to meet the requirements is 31 December 2022.

Transition Arrangements

This qualification was republished in October 2017 to extend the last date for enrolment from 31 December 2017 to 31 December 2018, and the last date of assessment from 31 December 2021 to 31 December 2022.

This qualification has been replaced by the New Zealand Certificate in Mechanical Engineering (Trade) (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, Metal Forming, and Toolmaking [Ref: 2714].

The last date for entry into programmes leading to this qualification is 31 December 2018.

The last date for assessments to take place for this qualification is 31 December 2022, when the qualification will be discontinued.

People currently working towards this qualification may either complete the requirements by 31 December 2022 or transfer their results to the replacement qualification.

This qualification contains expiring unit standards for which replacement unit standards have now been registered. Candidates who have gained credit for the replacement unit standards are exempt from the requirement to gain credit for the expiring unit standards.

Credit for	Exempt from
26551, 26552	6401, 6402
27203, 27204	2402
29655	2430
29653	2432
29551	4797
29552	4800
29550	20799
29549	20917

Mathematics For Mechanical And Production Engineering Level 4

J O Bird,A J C May



Mathematics For Mechanical And Production Engineering Level 4:

Mathematics for Mechanical and Production Engineering, Level IV Jack Morris, 1981-01-01 Microelectronic Systems 1 Checkbook R E Vears, 2013-10-22 Microelectronic Systems 1 Checkbook provides coverage of the Business and Technician Education Council level 1 unit in Microelectronic Systems However it can be regarded as a basic textbook in microelectronic systems for a much wider range of studies Each topic considered in the text is presented in a way that assumes the reader has little prior knowledge of electronics The aim of the book is to provide an introduction to the concept of systems to differentiate analogue and digital systems and to describe the nature of microprocessor controlled systems An introduction to programming is provided in Chapter 6 in which simple programs are described To enable practical experience to be gained listings are provided for these programs to run on four different microprocessor systems The four microprocessors chosen are the MOS 6502 Motorola 6800 National Semiconductors INS 8060 and RCA 1802 This book is designed for students seeking technician or equivalent qualification through the courses of the Business and Technician Education Council BTEC Scottish Technical Education Council Australian Technical and Further Education Departments East and West African Examinations Council and other comparable examining authorities in technical subjects *Electrical Principles 3 Checkbook* J O Bird, A J C May, 2016-11-08 Electrical Principles 3 Checkbook aims to introduce students to the basic electrical principles needed by technicians in electrical engineering electronics and telecommunications The book first tackles circuit theorems single phase series A C circuits and single phase parallel A C circuits Discussions focus on worked problems on parallel A C circuits worked problems on series A C circuits main points concerned with D C circuit analysis worked problems on circuit theorems and further problems on circuit theorems The manuscript then examines three phase systems and D C transients including worked problems on D C transients main points concerned with three phase systems and worked problems on three phase systems The text ponders on single phase transformers D C machines and introduction to three phase induction motors Topics include worked problems on an introduction to three phase induction motors main points concerned with D C machines worked problems on D C machines and main points concerned with an introduction to three phase induction motors The publication then elaborates on the main points and worked problems concerned with measuring instruments and measurements The book is a dependable source of data for students wanting to dig deeper into electrical principles **Which Degree in Britain** , 1999 A comprehensive guide to full time degree courses institutions and towns in Britain **Microelectronic Systems 3 Checkbook** R E Vears, 2013-10-22 Microelectronic Systems 3 Checkbook aims to extend the range of hardware software and interfacing techniques developed at level 2 This book concentrates on the highly popular 6502 Z80 and 6800 microprocessors and contains approximately 70 tested programs that may be used with little or no modification on most systems based on these microprocessors This text also covers the main points concerned with computer hardware configuration interfacing devices subroutines and the stack polling and interrupts microelectronic

stores and address decoding and organization Each chapter of the book contains worked problems for the respective topics Microprocessor instruction sets for MS6502 Z80 and MC6800 are provided in the Appendix Students taking Microelectronic Systems courses will find this book invaluable **Which Degree Guide** ,2003 *Mechanical Engineering* Alan Darbyshire,Charles Gibson,2022-07-13 Now in its fourth edition Mechanical Engineering has been revised to be in line with the technical qualifications of the new engineering apprenticeship standards at Level 3 In addition four new chapters are included that cover static and dynamic engineering systems fluid systems and additive manufacturing The text covers eight units of the BTEC L3 Advanced Manufacturing Engineering Development Technical Knowledge qualification as well as some content in the BTEC National Engineering Syllabus and BTEC L3 Aerospace and Aviation Engineering specialist qualifications It also covers some of the content in the EAL L3 Advanced Manufacturing Engineering Development Technical Knowledge qualification To enhance learning mathematical theory is backed up with numerous examples to work through There are also activities for students to complete out of the classroom that help put the theory into context Test your knowledge quizzes throughout the text enable students to test their understanding while end of unit review questions are helpful for exam revision and course work This book is ideal for students undertaking Level 3 courses in engineering although students undertaking Level 4 engineering courses will also find the content of the book useful to their studies Alan Darbyshire is a retired Further Education lecturer and experienced textbook author for Intermediate GNVQ and AVCE He drafted several of the mechanical engineering units for the BTEC National specifications Charles Gibson completed an aeronautical mechanical engineering apprenticeship and then spent 16 years in the Royal Navy maintaining military helicopters before retiring from the military in 2008 Since then he has worked in Further Education as the Head of Aeronautical Engineering at City of Bristol College where he also taught on several programmes including BTECs in Aeronautical Engineering and Foundation Degrees In 2013 he transferred to Yeovil College where he continues to teach on engineering programmes from Level 2 to Level 5 He has also been involved in the writing of engineering technical knowledge qualifications for several engineering apprenticeship standards **The British National Bibliography** Arthur James Wells,1979 *People's Daily Graphic* Sam Clegg,1984-06 Daily Graphic Ransford Tetteh,2010-03-11 University of Michigan Official Publication University of Michigan,1988 Each number is the catalogue of a specific school or college of the University *Undergraduate Catalog* University of Michigan--Dearborn,2006 *Whitaker's Cumulative Book List* ,1984

1986 International Association of Universities,Franz Eberhard,Ann C. Taylor,2020-10-26 No detailed description available for 1986 *Current Advances in Mechanical Design and Production VII* M.F. Hassan,S.M. Megahed,2000-01-31 The International Conference on Mechanical Design and Production has over the years established itself as an excellent forum for the exchange of ideas in these established fields The first of these conferences was held in 1979 The seventh and most recent conference in the series was held in Cairo during February 15 17 2000 International engineers and scientists

gathered to exchange experiences and highlight the state of the art research in the fields of mechanical design and production. In addition, a heavy emphasis was placed on the issue of technology transfer. Over 100 papers were accepted for presentation at the conference. Current Advances in Mechanical Design Production VII does not, however, attempt to publish the complete work presented but instead offers a sample that represents the quality and breadth of both the work and the conference. Ten invited papers and 54 ordinary papers have been selected for inclusion in these proceedings. They cover a range of basic and applied topics that can be classified into six main categories: System Dynamics, Solid Mechanics, Material Science, Manufacturing Processes, Design and Tribology, and Industrial Engineering and its Applications. Metal Construction, 1975. 9th EAI International Conference on Management of Manufacturing Systems. Lucia Knapcikova, Dragan Perakovic, 2025-03-29. The book presents the proceedings of the 9th EAI International Conference on Management of Manufacturing Systems MMS 2024, which took place October 9-11, 2024, in Dubrovnik, Croatia. The conference covers the management of manufacturing systems with support for Industry 4.0, logistics, and intelligent manufacturing systems and applications, cooperation management, and its effective applications. Topics include RFID applications, economic impacts in logistics, ICT support for Industry 4.0, industrial and smart logistics, intelligent manufacturing systems, and applications, and much more. The topic is of interest to researchers, practitioners, students, and academics in manufacturing and communications engineering. **Mechanical Engineer's Reference Book**. Edward H. Smith, 2013-09-24. Mechanical Engineer's Reference Book, 12th Edition, is a 19-chapter text that covers the basic principles of mechanical engineering. The first chapters discuss the principles of mechanical engineering, electrical and electronics, microprocessors, instrumentation, and control. The succeeding chapters deal with the applications of computers and computer-integrated engineering systems, the design standards and materials properties, and selection. Considerable chapters are devoted to other basic knowledge in mechanical engineering, including solid mechanics, tribology, power units and transmission, fuels and combustion, and alternative energy sources. The remaining chapters explore other engineering fields related to mechanical engineering, including nuclear, offshore, and plant engineering. These chapters also cover the topics of manufacturing methods, engineering mathematics, health and safety, and units of measurements. This book will be of great value to mechanical engineers. 1983. D. J. Aitken, 2020-05-18. No detailed description available for 1983. *Library of Congress Subject Headings*. Library of Congress. Cataloging Policy and Support Office, 2007.

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Mathematics For Mechanical And Production Engineering Level 4 Introduction

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