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What is mechanical engineering? Mechanical engineers design, manufacture and optimise specialist machines and processes. As part of your Bachelor of Mechanical Engineering you will study how to solve important problems. Your core courses in mechanical engineering will teach you to develop solutions using robotics, new advanced materials, the ...

This e-book is a compilation of papers presented at the Mechanical Engineering Research Day 2017 (MERD'17) - Melaka, Malaysia on 30 March 2017.

An attempt has been made to make the pedagogy lucid, at the same time blending the elements of mechanics, electronics and information systems in a well-defined way. The book will be very useful for degree and diploma students of mechanical and electronics engineering. Professionals from the machine tool user industry will find the book useful in their activities.

The VTAC eGuide is the Victorian Tertiary Admissions Centre's annual guide to application for tertiary study, scholarships and special consideration in Victoria, Australia. The eGuide contains course listings and selection criteria for over 1,700 courses at 62 institutions including universities, TAFE institutes and independent tertiary colleges.

This text gives a clear and comprehensive introduction to the area of Mechatronics. It is practical and applied, giving a solid understanding of the key skills and interdisciplinary approach required to successfully design Mechatronic systems. Plenty of case-studies, and use of models for mechatronic systems, help give a real-world context, whilst self-test questions and exercises help test understanding.

The integration of electronic engineering, electrical engineering, computer technology and control engineering - mechatronics - forms a crucial part in the design, manufacture and maintenance of a wide range of engineering products and processes. This book provides a clear and comprehensive introduction to the application of electronic control systems in mechanical and electrical engineering. It gives a framework of knowledge that allows engineers and technicians to develop an interdisciplinary understanding and integrated approach to engineering. Key features of the third edition provides the mix of skills in mechanical engineering, electronics and computing which are required for students to be able to comprehend and design mechatronics systems enables students to operate and communicate across a range of engineering disciplines more discussion of microcontrollers and programming increased use of models for mechatronics systems numerous examples and case studies end-of-chapter problems with answers at the back of the book Mechatronics is essential reading for students studying mechatronics at higher diploma and undergraduate level. Bill Bolton was formally Consultant to the Further Education Unit and Head of Research and Development and Monitoring at BTEC. He is the author of many engineering textbooks.

This book describes in vivid detail how a newly independent nation with neither a history of technical education nor industry, developed in a short period of time a world-class system of technical and vocational education that helped it make rapid progress in its manufacturing and industrial sector. The economy and the education sector both developed in parallel, with each complementing the other, utilizing strategies and making the decisions that were to bring the country quickly to advanced status. Studies show that premature investment in higher education at the expense of technical and vocational education has created many leaders but few doers, leading to high unemployment. The Singapore Technical Vocational Education and Training

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(TVET) story demonstrates how governmental support helped changed the image of technical and vocational education to one equal with higher education, yet including bridges and ladders to allow everyone to maximize their potential. Contents: The Colonial Legacy The Adrenalin of Independence Vocational Training Takes Off The Role of the Economic Development Board in Technical Education Polytechnics Come of Age The Transformation of TVET The Labour Movement and Worker Upgrading Connecting TVET with Higher Education Preparing for a Skills-Based Future Key Lessons for Policy-Makers Readership: Professional researchers, government officials, as well as the general public.

Developing students' creative problem-solving skills is paramount to today's teachers, due to the exponentially growing demand for cognitive plasticity and critical thinking in the workforce. In today's knowledge economy, workers must be able to participate in creative dialogue and complex problem-solving. This has prompted institutions of higher education to implement new pedagogical methods such as problem-based and case-based education. The Handbook of Research on Creative Problem-Solving Skill Development in Higher Education is an essential, comprehensive collection of the newest research in higher education, creativity, problem solving, and pedagogical design. It provides the framework for further research opportunities in these dynamic, necessary fields. Featuring work regarding problem-oriented curriculum and its applications and challenges, this book is essential for policy makers, teachers, researchers, administrators, students of education.

"The integration of electronic engineering, electrical engineering, computer technology and control engineering with mechanical engineering -- mechatronics -- now forms a crucial part in the design, manufacture and maintenance of a wide range of engineering products and processes. This book provides a clear and comprehensive introduction to the application of electronic control systems in mechanical and electrical engineering. It gives a framework of knowledge that allows engineers and technicians to develop an interdisciplinary understanding and integrated approach to engineering. This second edition has been updated and expanded to provide greater depth of coverage." -- Back cover.

INTRODUCTION TO MECHATRONICS AND MEASUREMENT SYSTEMS provides comprehensive and accessible coverage of the evolving field of mechatronics for mechanical, electrical and aerospace engineering majors. The authors present a concise review of electrical circuits, solid-state devices, digital circuits, and motors- all of which are fundamental to understanding mechatronic systems. Mechatronics design considerations are presented throughout the text, and in "Design Example" features. The text's numerous illustrations, examples, class discussion items, and chapter questions & exercises provide an opportunity to understand and apply mechatronics concepts to actual problems encountered in engineering practice. This text has been tested over several years to ensure accuracy. A text web site is available at <http://www.engr.colostate.edu/~dga/mechatronics/> and contains numerous supplemental resources.

The book gives a systematical and almost self-contained description of the many facets of envisaging, designing, implementing or experimentally exploring offshore mechatronics and systems along the adequate designs of integrated modeling, safety, control and supervision infrastructure. With the rapid improvements in offshore technologies in various fields such as oil and gas industry, wind energy, robotics and logistics, many researchers in academia and industry have focused on technology-based challenges raised in offshore environment. This book introduces novel theoretical or practical techniques for offshore mechatronics systems. Chapters cover general application model-based systems engineering, wind energy, control systems, mechanics, health monitoring, safety critical human-machine systems, logistics and offshore industrial complexes such as oil and gas operations, robotics, large space structures and autonomous underwater vehicles, and some other advanced technologies. The core feature of this book is that of establishing synergies of modeling, control, computing and mechanics in order to achieve not only robust plant system operation but also properties such as safety, cost, integrity and survivability while retaining desired performance quality. The book provides innovative insights into applications aspects and theoretical understanding of complex offshore mechatronics systems that has emerged in recent years, either via physical implementations or via extensive computer simulations in addition to sound innovated theoretical developments. It will serve as a reference for graduate and postgraduate students and for researchers in all engineering disciplines, including mechanical engineering, electrical engineering and applied mathematics to explore the state-of-the-art techniques for solving problems of integrated modeling, control and supervision of complex offshore plants with collective safety and robustness. Thus it shall be useful as a guidance for system engineering practitioners and system theoretic researchers alike.

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