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William Bolton is a former Consultant to Further Education Unit and Head of Research, Development and Monitoring BTEC. Relevant courses Control Theory (Engineering: Electrical)

Bolton, Control Engineering, 2nd Edition | Pearson

A good book on the theoretical principles of control systems/process engineering - written in W. Bolton's accessible style. Read more. Report abuse. Neil Purslow. 5.0 out of 5 stars A little dated but a good source of reference information. Reviewed in the United Kingdom on April 7, 2013.

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The overall approach of this book makes it an ideal text for all introductory level undergraduate courses in control engineering and instrumentation. It is fully in line with latest syllabus requirements, and also covers, in full, the requirements of the Instrumentation & Control Principles and Control Systems & Automation units of the new Higher National Engineering syllabus from Edexcel.

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Control Engineering provides a basic yet comprehensive introduction to the subject of control engineering for both mechanical and electrical engineering students. It is well written, easy to follow and contains many examples to reinforce understanding of the theory. This second edition has undergone a substantial revision in order to appeal to both branches of engineering but still serves as a basic introduction that does not venture into unnecessary depth, and does not assume too much of the reader. Key Features * comprehensive introduction which starts at a low level * includes three new chapters on control system hardware, discrete time systems and microprocessor based control * chapter on z-transform has been rewritten * includes more practical applications, including section on use of MATLAB * supported by more case studies * section on digital control made much stronger * improved index * essential reading for all HNC/HND students undertaking any study of control engineering. It is also suitable for any degree course where an introduction to control system analysis is required.

In a clear and readable style, Bill Bolton addresses the basic principles of modern instrumentation and control systems, including examples of the latest devices, techniques and applications. Unlike the majority of books in this field, only a minimal prior knowledge of mathematical methods is assumed. The book focuses on providing a comprehensive introduction to the subject, with Laplace presented in a simple and easily accessible form, complimented by an outline of the mathematics that would be required to progress to more advanced levels of study. Taking a highly practical approach, Bill Bolton combines underpinning theory with numerous case studies and applications throughout, to enable the reader to apply the content directly to real-world engineering contexts. Coverage includes smart instrumentation, DAQ, crucial health and safety considerations, and practical issues such as noise reduction, maintenance and testing. An introduction to PLCs and ladder programming is incorporated in the text, as well as new information introducing the various software programmes used for simulation. Problems with a full answer section are also included, to aid the reader's self-assessment and learning, and a companion website (for lecturers only) at <http://textbooks.elsevier.com> features an Instructor's Manual including multiple choice questions, further assignments with detailed solutions, as well as additional teaching resources. The overall approach of this book makes it an ideal text for all introductory level undergraduate courses in control engineering and instrumentation. It is fully in line with latest syllabus requirements, and also covers, in full, the requirements of the Instrumentation & Control Principles and Control Systems & Automation units of the new Higher National Engineering syllabus from Edexcel. * Assumes minimal prior mathematical knowledge, creating a highly accessible student-centred text * Problems, case studies and applications included throughout, with a full set of answers at the back of the book, to aid student learning, and place theory in real-world engineering contexts * Free online lecturer resources featuring supporting notes, multiple-choice tests, lecturer handouts and further assignments and solutions

Newnes Control Engineering Pocket Book is a concise reference text for students, technicians and engineers. Control engineering is the foundation on which modern industry is built, but is often viewed as one of the toughest subjects, as it includes abstract ideas and often tough mathematics. This pocket book provides a digest of the full range of topics needed to understand and use control systems theory and engineering. Bill Bolton is one of the most experienced teachers and authors in the engineering world. This book complements Newnes Instrumentation and Measurement Pocket Book by Bolton. Illustrated throughout and crammed with reference material, no other book covers the basics of control in such a convenient and affordable format. · Ideal for engineers and students alike. · Complete guide to control systems engineering and theory. · Author is a highly experienced teacher and author in the engineering field.

Working through this student-centred text readers will be brought up to speed with the modelling of control systems using Laplace, and given a solid grounding of the pivotal role of control systems across the spectrum of modern engineering. A clear, readable text is supported by numerous worked example and problems. * Key concepts and techniques introduced through applications * Introduces mathematical techniques without assuming prior knowledge * Written for the latest vocational and undergraduate courses

"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.

Control engineering is the terminology used to describe the use of automation in repetitive checking and assessment processes in the manufacturing industries. This text introduces the reader to a full range of topics vital to an understanding of the methods of control engineering. tables to clarify difficult concepts. engineering. The book covers block M or the BTEC bank of objectives for Electrical and Electronic Principles Unit N U86/329 and blocks J and P of the electrical and electronic Principles bank of objectives of Unit H 136/83B.

Mechatronics is the integration of electronic engineering, mechanical engineering, control and computer engineering. This book offers a comprehensive introduction to the area.

Instrumentation and Control Systems, Third Edition, addresses the basic principles of modern instrumentation and control systems, including examples of the latest devices, techniques and applications. The book provides a comprehensive introduction on the subject, with Laplace presented in a simple and easily accessible form and complemented by an outline of the mathematics that would be required to progress to more advanced levels of study. Taking a highly practical approach, the author combines underpinning theory with numerous case studies and applications throughout, thus enabling the reader to directly apply the content to real-world engineering contexts. Coverage includes smart instrumentation, DAQ, crucial health and safety considerations, and practical issues such as noise reduction, maintenance and testing. PLCs and ladder programming is incorporated in the text, as well as new information introducing various software programs used for simulation. The overall approach of this book makes it an ideal text for all introductory level undergraduate courses in control engineering and instrumentation. Assumes minimal prior mathematical knowledge Includes an extensive collection of problems, case studies and applications, with a full set of answers at the back of the book Helps place theory in real-world engineering context

The integration of electronic engineering, mechanical engineering, control and computer engineering - Mechatronics - lies at the heart of the innumerable gadgets, processes and technology that makes modern life would seem impossible. From auto-focus cameras to car engine management systems, and from state-of-the-art robots to the humble washing machine, Mechatronics has a hand in them all. This book presents a clear and comprehensive introduction to the area. Practical and applied, it helps you to acquire the mix of skills you will need to comprehend and design mechatronic systems. It also goes much deeper, explaining the very philosophy of mechatronics, and, in so doing, provides you with a frame of understanding to develop a truly interdisciplinary and integrated approach to engineering. This 7th edition has been updated throughout with new sections and examples throughout: Updated coverage of mechatronic system components, including extended coverage of encoders, position sensitive detectors and force sensitive resistors New material on Atmega microcontrollers including applications and programming examples Topical discussion and examples of fuzzy logic and neural control systems Applications and case studies have been revised across the book, with fascinating examples including automated guided vehicles, artificial hands, fuzzy logic washing machines, to help you to gain a modern and practical understanding Mechatronics is essential reading for students requiring an introduction to this exciting area at undergraduate and higher diploma level. Bill Bolton was formerly Consultant to the Further Education Unit and Head of Research and Development and Monitoring at the Business and Technology Education Council (BTEC). He has also been a UNESCO consultant and is the author of many successful engineering textbooks.

Instrumentation and Control Systems addresses the basic principles of modern instrumentation and control systems, including examples of the latest devices, techniques and applications in a clear and readable style. Unlike the majority of books in this field, only a minimal prior knowledge of mathematical methods is assumed. The book focuses on providing a comprehensive introduction to the subject, with Laplace presented in a simple and easily accessible form, complimented by an outline of the mathematics that would be required to progress to more advanced levels of study. Taking a highly practical approach, the author combines underpinning theory with numerous case studies and applications throughout, to enable the reader to apply the content directly to real-world engineering contexts. Coverage includes smart instrumentation, DAQ, crucial health and safety considerations, and practical issues such as noise reduction, maintenance and testing. PLCs and ladder programming is incorporated in the text, as well as new information introducing the various software programs used for simulation. The overall approach of this book makes it an ideal text for all introductory level undergraduate courses in control engineering and instrumentation. It is fully in line with latest syllabus requirements, and also covers, in full, the requirements of the Instrumentation & Control Principles and Control Systems & Automation units of the new Higher National Engineering syllabus from Edexcel. Completely updated Assumes minimal prior mathematical knowledge Highly accessible student-centred text Includes an extensive collection of problems, case studies and applications, with a full set of answers at the back of the book Helps placing theory in real-world engineering contexts

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