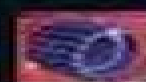


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William B J Zimmerman



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Andrew Watts



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strength of this book is that it makes modelling and simulating in the MATLAB FEMLAB environment approachable to both the novice and the expert modeller

Multiphysics Modeling Murat Peksen, 2018-06-27 Multiphysics Modelling Materials Components and Systems focuses on situations where coupled phenomena involving a combination of thermal fluid and solid mechanics occur Important fundamentals of the various physics that are required in multiphysics modelling are introduced and supported with practical problems More advanced topics such as creep deformation fatigue and fracture multiphase flow or melting in porous media are tackled 3D interactions in system architectures and energy systems such as batteries reformer or fuel cells and modelling of high performance materials are exemplified Important multiphysics modelling issues are highlighted In addition to theory solutions to problems such as in linear and non linear situations are addressed as well as specific solutions for multiphysics modelling of fluid solid solid solid and fluid fluid interactions are given Drawing on teaching experience industry solutions and the latest research this book is the most complete guide to multiphysics modelling available for students and researchers in diverse science and engineering disciplines Provides a thorough intro to the theory behind multiphysics modeling Covers both linear and non linear material behaviors Helps to answer practical questions such as when to use 2D or 3D modeling

Modern Construction Case Studies Andrew Watts, 2019-06-17 Modern Construction Case Studies focuses on the interface between the design of facades structures and environments of 12 building projects all developed by Newtecnic The Author compares facade technologies particularly in the way they interface with structure and MEP mechanical electrical plumbing services in complex projects to provide insights into the design process for building envelopes Each envelope technology is described with an emphasis on one of three aspects geometry construction and performance The analysis links the 12 case studies by comparing their structural and environmental performance The aim is achieved by analyzing typical bays which are representative of each project and which illustrate the implications of using different building envelope technologies

New Trends in Control Theory Vladimir G. Ivancevic, Tijana T. Ivancevic, 2013 New Trends in Control Theory is a graduate level monographic textbook It is a contemporary overview of modern trends in control theory The introductory chapter gives the geometrical and quantum background which is a necessary minimum for comprehensive reading of the book The second chapter gives the basics of classical control theory both linear and nonlinear The third chapter shows the key role that Euclidean group of rigid motions plays in modern robotics and biomechanics The fourth chapter gives an overview of modern quantum control from both theoretical and measurement perspectives The fifth chapter presents modern control and synchronization methods in complex systems and human crowds The appendix provides the rest of the background material complementary to the introductory chapter The book is designed as a one semester course for engineers applied mathematicians computer scientists and physicists both in industry and academia It includes a most relevant bibliography on the subject and detailed index

Advances in Solid-State Welding and Processing of Metallic Materials R. Vaira Vignesh, M. Govindaraju, R. Padmanaban, 2025-03-28 This book covers the essential information needed to

understand the latest developments of solid state welding and processing of metallic materials including physical metallurgy production technologies alloy development compositing post processing and joining methodologies Advances in Solid State Welding and Processing of Metallic Materials is the result of the collaborative efforts from expert researchers across various institutions around the globe Harnessing this wealth of expertise and experience the book enables the reader to comprehend both the theory behind microstructural evolution as well as the practical elements of welding and processing It also analyzes strengthening mechanisms corrosion mechanisms and wear mechanisms Topics discussed in this book include friction stir welding friction stir processing modified friction stir clinching hot rolling and cold rolling alongside diffusion bonding and powder metallurgy processing This book is a valuable companion to all students and researchers in metallurgy materials science and engineering manufacturing engineering and production engineering Ionic Polymer Metal Composites for Sensors and Actuators Inamuddin,Abdullah M. Asiri,2019-03-16 This book discusses the fundamental of bending actuation with a focus on ionic metal composites It describes the applications of ionic polymer metal composite IPMC actuators from conventional robotic systems to compliant micro robotic systems used to handle the miniature and fragile components during robotic micro assembly It also presents mathematical modelings of actuators for engineering biomedical medical and environmental systems The fundamental relation of IPMC actuators to the biomimetic systems are also included

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