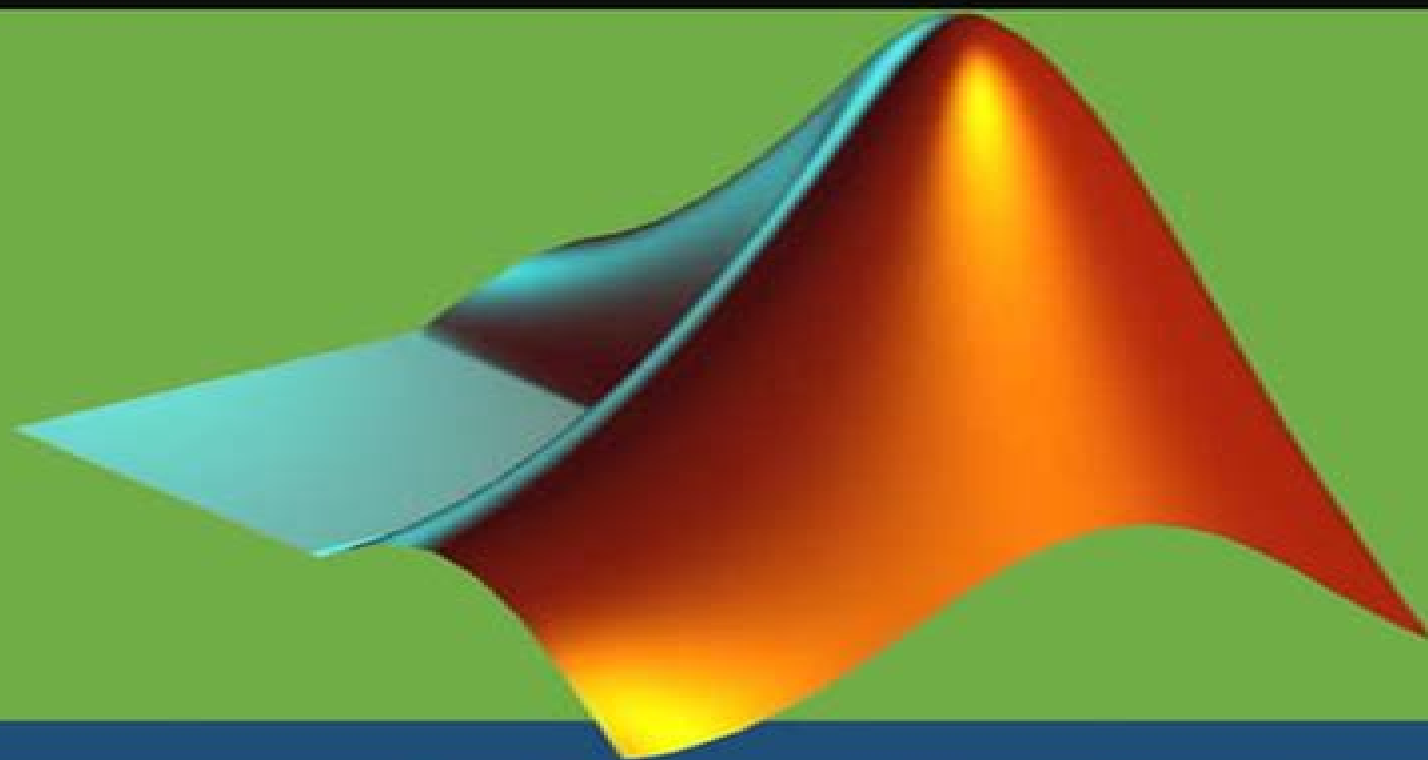


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y sus aplicaciones en métodos numéricos



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Electricity Distribution Panagiotis Karampelas, Lambros Ekonomou, 2016-03-01 This book introduces readers to novel efficient and user friendly software tools for power systems studies to issues related to distributed and dispersed power generation and to the correlation between renewable power generation and electricity demand Discussing new methodologies for addressing grid stability and control problems it also examines issues concerning the safety and protection of transmission and distribution networks energy storage and power quality and the application of embedded systems to these networks Lastly the book sheds light on the implications of these new methodologies and developments for the economics of the power industry As such it offers readers a comprehensive overview of state of the art research on modern electricity transmission and distribution networks

[From Photon to Neuron](#) Philip Nelson, 2017-05-09 A richly illustrated undergraduate textbook on the physics and biology of light Students in the physical and life sciences and in engineering need to know about the physics and biology of light Recently it has become increasingly clear that an understanding of the quantum nature of light is essential both for the latest imaging technologies and to advance our knowledge of fundamental life processes such as photosynthesis and human vision From Photon to Neuron provides undergraduates with an accessible introduction to the physics of light and offers a unified view of a broad range of optical and biological phenomena Along the way this richly illustrated textbook builds the necessary background in neuroscience photochemistry and other disciplines with applications to optogenetics superresolution microscopy the single photon response of individual photoreceptor cells and more With its integrated approach From Photon to Neuron can be used as the basis for interdisciplinary courses in physics biophysics sensory neuroscience biophotonics bioengineering or nanotechnology The goal is always for students to gain the fluency needed to derive every result for themselves so the book includes a wealth

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The Computer Music Tutorial, second edition Curtis Roads, 2023-06-06 Expanded updated and fully revised the definitive introduction to electronic music is ready for new generations of students Essential and state of the art The Computer Music Tutorial second edition is a singular text that introduces computer and electronic music explains its motivations and puts topics into context Curtis Roads s step by step presentation orients musicians engineers scientists and anyone else new to computer and electronic music The new edition continues to be the definitive tutorial on all aspects of computer music including digital audio signal processing musical input devices performance software editing systems algorithmic composition MIDI and psychoacoustics but the second edition also reflects the enormous growth of the field since the book s original publication in 1996 New chapters cover up to date topics like virtual analog pulsar synthesis concatenative synthesis spectrum analysis by atomic decomposition Open Sound Control spectrum editors and instrument and patch editors Exhaustively referenced and cross referenced the second edition adds hundreds of new figures and references to the original charts diagrams screen images and photographs in order to explain basic concepts and terms Features New chapters virtual analog pulsar synthesis concatenative synthesis spectrum analysis by atomic decomposition Open Sound Control spectrum editors instrument and patch editors and an appendix on machine learning Two thousand references support the book s descriptions and point readers to further study Mathematical notation and program code examples used only when necessary Twenty five years of classroom seminar and workshop use inform the pace and level of the material

Guide to Brain-Computer Music Interfacing Eduardo Reck Miranda, Julien Castet, 2014-10-03 This book presents a world class collection of Brain Computer Music Interfacing BCMI tools The text focuses on how these tools enable the extraction of meaningful control information from brain signals and discusses how to design effective generative music techniques that respond to this information Features reviews important techniques for hands free interaction with computers including event related potentials with P300 waves explores questions of semiotic brain computer interfacing BCI and the use of machine learning to dig into relationships among music and emotions offers tutorials on signal extraction brain electric fields passive BCI and applications for genetic algorithms along with historical surveys describes how BCMI research advocates the importance of better scientific understanding of the brain for its potential impact on musical creativity presents broad coverage of this emerging interdisciplinary area from hard core EEG analysis to practical musical applications

Accelerating MATLAB Performance Yair M. Altman, 2014-12-11 The MATLAB programming environment is often perceived as a platform suitable for prototyping and modeling but not for serious applications One of the main

complaints is that MATLAB is just too slow Accelerating MATLAB Performance aims to correct this perception by describing multiple ways to greatly improve MATLAB program speed Packed with the

Mathematics for Social Justice Catherine A. Buell, Bonnie Shulman, 2021-11-17 Mathematics instructors are always looking for ways to engage students in meaningful and authentic tasks that utilize mathematics At the same time it is crucial for a democratic society to have a citizenry who can critically discriminate between fake and reliable news reports involving numeracy and apply numerical literacy to local and global issues This book contains examples of topics linking math and social justice and addresses both goals There is a broad range of mathematics used including statistical methods modeling calculus and basic algebra The range of social issues is also diverse including racial injustice mass incarceration income inequality and environmental justice There are lesson plans appropriate in many contexts service learning courses quantitative literacy reasoning courses introductory courses and classes for math majors What makes this book unique and timely is that the most previous curricula linking math and social justice have been treated from a humanist perspective This book is written by mathematicians for mathematics students Admittedly it can be intimidating for instructors trained in quantitative methods to venture into the arena of social dilemmas This volume provides encouragement support and a treasure trove of ideas to get you started The chapters in this book were originally published as a special issue of the journal PRIMUS Problems Resources and Issues in Mathematics Undergraduate Studies

AC to AC Converters Narayanaswamy P R Iyer, 2019-06-03 Power electronic converters can be broadly classified as AC to DC DC to AC DC to DC and AC to AC converters AC to AC converters can be further classified as AC Controllers or AC regulators Cycloconverters and Matrix converters AC controllers and cycloconverters are fabricated using Silicon Controlled Rectifiers SCR whereas matrix converters are built using semiconductor bidirectional switches This text book provides a summary of AC to AC Converter modelling excluding AC controllers The software Simulink by Mathworks Inc USA is used to develop the models of AC to AC Converters presented in this text book The term model in this text book refers to SIMULINK model This text book is mostly suitable for researchers and practising professional engineers in the industry working in the area of AC to AC converters Features Provides a summary of AC to AC Converter modelling excluding AC controllers Includes models for three phase AC to three phase AC matrix converters using direct and indirect space vector modulation algorithm Presents new applications such as single and dual programmable AC to DC rectifier with derivations for output voltage Displays Hardware in the Loop simulation of a three phase AC to single phase AC matrix converter Provides models for three phase multilevel matrix converters Z source Direct and Quasi Z source Indirect matrix converters a model for speed control and brake by plugging of three phase induction motor and separately excited DC motors using matrix converter a model for a new single phase and three phase sine wave direct AC to AC Converter without a DC link using three winding transformers and that for a square wave AC to square wave AC converter using a DC link models for variable frequency variable voltage AC to AC power supply models for Solid State Transformers using Dual Active Bridge topology

and a new direct AC to AC Converter topology and models for cycloconverters and indirect matrix converters

Process Systems and Materials for CO2 Capture Athanasios I. Papadopoulos, Panos Seferlis, 2017-03-07 This comprehensive volume brings together an extensive collection of systematic computer aided tools and methods developed in recent years for CO2 capture applications and presents a structured and organized account of works from internationally acknowledged scientists and engineers through Modeling of materials and processes based on chemical and physical principles Design of materials and processes based on systematic optimization methods Utilization of advanced control and integration methods in process and plant wide operations The tools and methods described are illustrated through case studies on materials such as solvents adsorbents and membranes and on processes such as absorption desorption pressure and vacuum swing adsorption membranes oxycombustion solid looping etc Process Systems and Materials for CO2 Capture Modelling Design Control and Integration should become the essential introductory resource for researchers and industrial practitioners in the field of CO2 capture technology who wish to explore developments in computer aided tools and methods In addition it aims to introduce CO2 capture technologies to process systems engineers working in the development of general computational tools and methods by highlighting opportunities for new developments to address the needs and challenges in CO2 capture technologies

Models and Simulations of the Electric Field in Deep Brain Stimulation Fabiola Alonso, 2018-09-10 Deep brain stimulation DBS is an established surgical therapy for movement disorders such as Parkinson s disease PD and essential tremor ET A thin electrode is implanted in a predefined area of the brain with the use of stereotactic neurosurgery In the last few years new DBS electrodes and systems have been developed with possibilities for using more parameters for control of the stimulation volume In this thesis simulations using the finite element method FEM have been developed and used for investigation of the electric field EF extension around different types of DBS lead designs symmetric steering and stimulation modes voltage current The electrode surrounding was represented either with a homogeneous model or a patient specific model based on individual preoperative magnetic resonance imaging MRI The EF was visualized and compared for different lead designs and operating modes In Paper I the EF was quantitatively investigated around two lead designs 3389 and 6148 simulated to operate in voltage and current mode under acute and chronic time points following implantation Simulations showed a major impact on the EF extension between postoperative time points which may explain the clinical decisions to change the stimulation amplitude weeks after implantation In Paper II the simulations were expanded to include two leads having steering function 6180 Surestim1 and patient specific FEM simulations in the zona incerta It was found that both the heterogeneity of the tissue and the operating mode influence the EF distribution and that equivalent contact configurations of the leads result in similar EF The steering mode presented larger volumes in current mode when using equivalent amplitudes Simulations comparing DBS and intraoperative stimulation test using a microelectrode recording MER system Paper III showed that several parallel MER leads and the presence of the non active DBS contacts influence the EF

distribution and that the DBS EF volume can cover but also extend to other anatomical areas Paper IV introduces a method for an objective exploitation of intraoperative stimulation test data in order to identify the optimal implant position in the thalamus of the chronic DBS lead Patient specific EF simulations were related to the anatomy with the help of brain atlases and the clinical effects which were quantified by accelerometers The first results indicate that the good clinical effect in ET is due to several structures around the ventral intermediate nucleus of the thalamus

Functional Imaging and Modeling of the Heart Daniel B. Ennis, Luigi E. Perotti, Vicky Y. Wang, 2021-06-17 This book constitutes the refereed proceedings of the 11th International Conference on Functional Imaging and Modeling of the Heart which took place online during June 21-24, 2021 organized by the University of Stanford The 65 revised full papers were carefully reviewed and selected from 68 submissions They were organized in topical sections as follows: advanced cardiac and cardiovascular image processing; cardiac microstructure measures and models; novel approaches to measuring heart deformation; cardiac mechanics measures and models; translational cardiac mechanics modeling; electrophysiology ECG and arrhythmia; cardiovascular flow measures and models; and atrial microstructure modeling and thrombosis prediction

Emerging Electronics and Automation Peter Han, Joo Chong, Akhtar Kalam, Antonio Pascoal, Manas Kumar Bera, 2022-11-09 This book constitutes peer-reviewed proceedings of the International Conference on Emerging Electronics and Automation E2A 2021 The book presents new ideas, research findings, and novel techniques in the fields of sensors and instrumentation, automation, and control, artificial intelligence, MEMS sensors, soft computing, signal processing, and communication It includes contributions received from both academia and industry The proceedings will be helpful for beginners as well as advanced researchers in the area of automation and other allied fields

Modeling and Analysis of Dynamic Systems, Second Edition Ramin S. Esfandiari, Bei Lu, 2014-04-24 Modeling and Analysis of Dynamic Systems Second Edition introduces MATLAB Simulink and Simscape™ and then uses them throughout the text to perform symbolic, graphical, numerical, and simulation tasks Written for junior or senior level courses, the textbook meticulously covers techniques for modeling dynamic systems, methods of response analysis, and provides an introduction to vibration and control systems These features combine to provide students with a thorough knowledge of the mathematical modeling and analysis of dynamic systems See What's New in the Second Edition Coverage of modeling and analysis of dynamic systems ranging from mechanical to thermal using Simscape Utilization of Simulink for linearization as well as simulation of nonlinear dynamic systems Integration of Simscape into Simulink for control system analysis and design Each topic covered includes at least one example giving students better comprehension of the subject matter More complex topics are accompanied by multiple painstakingly worked-out examples Each section of each chapter is followed by several exercises so that students can immediately apply the ideas just learned End-of-chapter review exercises help in learning how a combination of different ideas can be used to analyze a problem This second edition of a bestselling textbook fully integrates the MATLAB Simscape Toolbox and covers the usage of Simulink for

new purposes It gives students better insight into the involvement of actual physical components rather than their mathematical representations

PowerFactory Applications for Power System Analysis Francisco M.

Gonzalez-Longatt, José Luis Rueda, 2014-12-27 This book presents a comprehensive set of guidelines and applications of DlgSILENT PowerFactory an advanced power system simulation software package for different types of power systems studies Written by specialists in the field it combines expertise and years of experience in the use of DlgSILENT

PowerFactory with a deep understanding of power systems analysis These complementary approaches therefore provide a fresh perspective on how to model simulate and analyse power systems It presents methodological approaches for modelling of system components including both classical and non conventional devices used in generation transmission and distribution systems discussing relevant assumptions and implications on performance assessment This background is complemented with several guidelines for advanced use of DSL and DPL languages as well as for interfacing with other software packages which is of great value for creating and performing different types of steady state and dynamic performance simulation analysis All employed test case studies are provided as supporting material to the reader to ease recreation of all examples presented in the book as well as to facilitate their use in other cases related to planning and operation studies Providing an invaluable resource for the formal instruction of power system undergraduate postgraduate students this book is also a useful reference for engineers working in power system operation and planning

Handbook of Research on Developing a Post-Pandemic Paradigm for Virtual Technologies in Higher Education Loureiro, Sandra Maria Correia, Guerreiro,

João, 2021-06-25 The COVID 19 pandemic has forced companies institutions citizens and students to rapidly change their behaviors and use virtual technologies to perform their usual working tasks Though virtual technologies for learning were already present in most universities the pandemic has forced virtual technologies to lead the way in order to continue teaching and learning for students and faculty around the world Universities and teachers had to quickly adjust everything from their curriculum to their teaching styles in order to adapt to an online learning environment Online learning is a complex issue and one that comes with both challenges and opportunities there is plenty of room for growth and further study is required to better understand how to improve online education The Handbook of Research on Developing a Post Pandemic Paradigm for Virtual Technologies in Higher Education is a comprehensive reference book that presents the testimonials of teachers and students with various degrees of experience with distance learning and their utilization of current virtual tools and applications for learning as well as the impact of these technologies and their potential future use With topics ranging from designing an online learning course to discussing group work in an online environment this book is ideal for teachers educational software developers IT consultants instructional designers administrators professors researchers lecturers students and all those who are interested in learning more about distance learning and all the positive and negative aspects that accompany it

Cybernetics and Algorithms in Intelligent Systems Radek Silhavy, 2018-05-16 This

book presents new approaches and methods applied to real world problems and in particular exploratory research relating to novel approaches in the field of cybernetics and automation control theory Particularly focusing on modern trends in selected fields of interest it presents new algorithms and methods in intelligent systems in cybernetics This book constitutes the third volume of the refereed proceedings of the Cybernetics and Algorithms in Intelligent Systems Section of the 7th Computer Science On line Conference 2018 CSOC 2018 held online in April 2018 *Formal Verification of Simulink/Stateflow*

Diagrams Naijun Zhan, Shuling Wang, Hengjun Zhao, 2016-11-07 This book presents a state of the art technique for formal verification of continuous time Simulink Stateflow diagrams featuring an expressive hybrid system modelling language a powerful specification logic and deduction based verification approach and some impressive realistic case studies Readers will learn the HCSP HHL based deductive method and the use of corresponding tools for formal verification of Simulink Stateflow diagrams They will also gain some basic ideas about fundamental elements of formal methods such as formal syntax and semantics and especially the common techniques applied in formal modelling and verification of hybrid systems By investigating the successful case studies readers will realize how to apply the pure theory and techniques to real applications and hopefully will be inspired to start to use the proposed approach or even develop their own formal methods in their future work Intelligent Systems for Healthcare Management and Delivery Bouchemal, Nardjes, 2018-12-07 With the

growing use of new technologies and artificial intelligence AI applications intelligent systems can be used to manage large amounts of existing data in healthcare domains Having more intelligent methods for accessing data allows medical professionals to more efficiently identify the best medical practices and more concrete solutions for diagnosing and treating a multitude of rare diseases Intelligent Systems for Healthcare Management and Delivery provides relevant and advanced methodological technological and scientific approaches related to the application of sophisticated exploitation of AI as well as providing insight into the technologies and intelligent applications that have received growing attention in recent years such as medical imaging EMR systems and drug development assistance This publication fosters a scientific debate for new healthcare intelligent systems and sophisticated approaches for enhanced healthcare services and is ideally designed for medical professionals hospital staff rehabilitation specialists medical educators and researchers **Numerical Methods in**

Geotechnical Engineering IX António Cardoso, José Borges, Pedro Costa, António Gomes, José Marques, Castorina Vieira, 2018-06-19 Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering NUMGE2018 Porto Portugal 25 27 June 2018 The papers cover a wide range of topics in the field of computational geotechnics providing an overview of recent developments on scientific achievements innovations and engineering applications related to or employing numerical methods They deal with subjects from emerging research to engineering practice and are grouped under the following themes Constitutive modelling and numerical implementation Finite element discrete element and other numerical methods

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Handbook of Research on Big Data Storage and Visualization Techniques Segall, Richard S., Cook, Jeffrey S., 2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programming systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

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