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Service Research Challenges and Solutions for the Future Internet Empirical Agent-Based Modelling - Challenges and Solutions Interpretive Solutions for Dynamic Structures Through ABAQUS Finite Element Packages Microsoft Dynamics 365 AI for Business Insights Phenomenology of Polymer Solution Dynamics IUTAM Symposium on Nonlinear Stochastic Dynamics and Control The Dynamics and Challenges of Tetranormalization Change Dynamics in Healthcare, Technological Innovations, and Complex Scenarios Climate Change Challenge (3C) and Social-Economic-Ecological Interface-Building Marketing Strategy Analytic Research Foundations for the Next-Generation Electric Grid Building Dynamics Solvation Dynamics RoboCup 2002: Robot Soccer World Cup VI Converter-Based Dynamics and Control of Modern Power Systems Best Practices Are Stupid Dynamics and Stability of Motion of Shock and Hybrid Systems The Key to Newton's Dynamics Semantic Web Technologies and Applications in Artificial Intelligence of Things Dynamic Mechanical and Creep-Recovery Behavior of Polymer-Based Composites Engineering Applications of Dynamics of Chaos Action Research for Sustainability Structural Dynamics, Volume 3 Parallel Computational Fluid Dynamics '96 Applications of Chaos and Nonlinear Dynamics in Science and Engineering - Vol. 3 Development Challenges, South-South Solutions: March 2014 Issue Handbook of Research on Entrepreneurial Ecosystems and Social Dynamics in a Globalized World Why Diversity, Equity, And Inclusion Matter: Challenges And Solutions Challenges and Solutions for Climate Change SAP Flexible Real Estate Management Computational Fluid Dynamics Building For Everyone International Perspectives on Health and Safety among Dairy Workers: Challenges, Solutions and the Future Computational Fluid Dynamics 2004 Handbook of Research on Social and Organizational Dynamics in the Digital Era Innovative Solutions for Sustainable Supply Chains Electron Dynamics in Molecular Interactions Parallel Computational Fluid Dynamics 2004 Special Topics in Structural Dynamics, Volume 6 IUTAM Symposium on Intelligent Multibody Systems - Dynamics, Control, Simulation

Service Research Challenges and Solutions for the Future Internet

2010-12-09

Service foundations for the internet of services today's internet is standing at a crossroads the internet has evolved from a source of information to a critical infrastructure which underpins our lives and economies the demand for more multimedia content more interconnected devices more users a richer user experience services available any time and anywhere increases the pressure on existing networks and service platforms the internet needs a fundamental rearrangement to be ready to meet future needs one of the areas of research for the future internet is the internet of services a vision of the internet where everything e.g. information software platforms and infrastructures is available as a service services available on the internet of services can be used by anyone if they are used according to the policies defined by the provider and they can be extended with new services by anyone advantages of the internet of services include the possibility to build upon other people's efforts and the little investment needed upfront to develop an application the risk involved in pursuing new business ideas is diminished and might lead to more innovative ideas being tried out in practice it will lead to the appearance of new companies that are able to operate in niche areas providing services to other companies that will be able to focus on their core business

Empirical Agent-Based Modelling - Challenges and Solutions

2013-09-12

This instructional book showcases techniques to parameterise human agents in empirical agent based models abm in doing so it provides a timely overview of key abm methodologies and the most innovative approaches through a variety of empirical applications it features cutting edge research from leading academics and practitioners and will provide a guide for characterising and parameterising human agents in empirical abm in order to facilitate learning this text shares the valuable experiences of other modellers in particular modelling situations very little has been published in the area of empirical abm and this contributed volume will appeal to graduate level students and researchers studying simulation modeling in economics sociology ecology and trans disciplinary studies such as topics related to sustainability in a similar vein to the instruction found in a cookbook this text provides the empirical modeller with a set of recipes ready to be implemented agent based modeling abm is a powerful simulation modeling technique that has seen a dramatic increase in real world applications in recent years in abm a system is modeled as a collection of autonomous decision making entities called agents each agent individually assesses its situation and makes decisions on the basis of a set of rules agents may execute various behaviors appropriate for the system they represent for example producing consuming or selling abm is increasingly used for simulating real world systems such as natural resource use transportation public health and conflict decision makers increasingly demand support that covers a multitude of indicators that can be effectively addressed using abm this is especially the case in situations where human behavior is identified as a critical element as a result abm will only continue its rapid growth this is the first volume in a series of books that aims to contribute to a cultural change in the community of empirical agent based modelling this series will bring together representational experiences and solutions in empirical agent based modelling creating a platform to exchange such experiences allows comparison of solutions and facilitates learning in the empirical agent based modelling community ultimately the community requires such exchange and learning to test approaches and thereby to develop a robust set of techniques within the domain of empirical agent based modelling based on robust and defensible methods agent based modelling will become a critical tool for research agencies decision making and decision supporting agencies and funding agencies this series will contribute to more robust and defensible empirical agent based modelling

Interpretive Solutions for Dynamic Structures Through ABAQUS Finite Element Packages

2021-12-14

Focuses on solving problems in the structural dynamics using abaqus software helps analyze and model different types of structures with various dynamic and cyclic loads discusses simulation of irregular shaped objects composed of several different materials with multipart boundary conditions includes application of various load effects to the developed structural models in abaqus software covers broad array of applications such as bridges

offshores dam seismic resistant systems and so forth

Microsoft Dynamics 365 AI for Business Insights

2024-03-29

streamline your business operations by leveraging ai across key functions using practical examples and insightful case studies key features uncover the practical applications of dynamics 365 ai across sales customer service marketing and finance explore dynamics 365 s integration with advanced ai tools such as openai azure open ai and ms copilot learn from real world examples and case studies purchase of the print or kindle book includes a free pdf ebook book description if there is one hot topic being discussed in every boardroom meeting today it s ai with microsoft dynamics 365 ai proving to be a game changer it s essential for business professionals to master this tool microsoft dynamics 365 ai for business insights will help you harness ai across key business functions to streamline processes and enhance customer experiences written by a seasoned professional with 15 years of experience this book guides you through dynamics 365 ai s practical applications across sales customer service marketing and finance departments you ll learn how to enhance customer experiences streamline sales processes optimize marketing strategies and improve financial forecasting this book also explores the integration of generative ai tools such as openai service azure open ai language models and microsoft copilot within the dynamics 365 ecosystem with real world examples case studies and expert insights you ll discover the transformative potential of this powerful toolkit as well as driving sales insights and implementing fraud protection you ll explore emerging ai trends microsoft s roadmap for dynamics 365 ai and the upcoming features by the end you ll be all set to unlock new growth opportunities using dynamics 365 ai what you will learn overcome common challenges in dynamics 365 ai implementation with ease delve into the practical applications of advanced generative ai tools integrate cutting edge tools such as openai service azure open ai language models and microsoft copilot with dynamics 365 ai derive insights from real world examples of successful ai implementation discover best practices and strategies for leveraging ai to find useful business insights and enhance operations explore microsoft s roadmap for dynamics 365 ai and the forthcoming trends in ai for business who this book is for this book is for dynamics 365 consultants architects and it managers willing to implement ai in their organizations business consultants advising on business technology especially those focused on microsoft dynamics 365 will find it useful for enhancing their skills a basic understanding of microsoft dynamics 365 and its suite of business applications will be beneficial as the book s focus is on implementing the tool s ai modules familiarity with the principles of artificial intelligence and how it is applied in a business context will also be helpful

Phenomenology of Polymer Solution Dynamics

2011-10-06

presenting a completely new approach to examining how polymers move in non dilute solution this book focuses on experimental facts not theoretical speculations and concentrates on polymer solutions not dilute solutions or polymer melts from centrifugation and solvent dynamics to viscosity and diffusion experimental measurements and their quantitative representations are the core of the discussion the book reveals several experiments never before recognized as revealing polymer solution properties a novel approach to relaxation phenomena accurately describes viscoelasticity and dielectric relaxation and how they depend on polymer size and concentration ideal for graduate students and researchers interested in the properties of polymer solutions the book covers real measurements on practical systems including the very latest results every significant experimental method is presented in considerable detail giving unprecedented coverage of polymers in solution

IUTAM Symposium on Nonlinear Stochastic Dynamics and Control

2011-03-07

non linear stochastic systems are at the center of many engineering disciplines and progress in theoretical research had led to a better understanding of non linear phenomena this book provides information on new fundamental results and their applications which are beginning to appear across the entire spectrum of mechanics the outstanding points of these proceedings are coherent compendium of the current state of modelling and analysis of non linear stochastic systems from engineering applied mathematics and physics point of view subject areas include multiscale phenomena stability and bifurcations control and estimation computational methods and

modelling for the engineering and physics communities this book will provide first hand information on recent mathematical developments the applied mathematics community will benefit from the modelling and information on various possible applications

The Dynamics and Challenges of Tetranormalization

2013-03-01

this volume continues the collaboration between the rmc book series and the french management research think tank iseor socio economic institute for firms and organizations those familiar with henri savall s and his colleague véronique zardet s earlier work on the socio economic theory of organizations will recognize their assessments of organizational dysfunctions and hidden costs but in a different context in their current work the emphasis is on the tensions created by the wider environment the idea of tetranormalization and how those tensions shape and influence organizational life drawing on a wide range of examples from the news media and popular press savall and zardet paint a disturbing picture of the underlying dynamics and challenges posed by a literal avalanche of standards and norms which are often ambiguous and conflicting that literally encompasses all that we do their analytic framework is composed of four poles two social dimensions and two economic dimensions that capture social norms and quality safety and environment standards the social dimension and trade related norms and accounting and financial standards the economic dimension throughout the volume savall and zardet s analysis captures the myriad ways in which these dimensions interact shaping the rules of the game that dictate how organizations compete and collaborate differentiating the rules of the game from playing with those rules they delve into the subtleties and nuances that underlie these poles providing further insight into how these forces are manipulated through lobbying and the seemingly 24 7 cycle of exposing publicizing and rule making surrounding social and economic as well as scientific and technological controversies as savall and zardet argue we are in the midst of a profound upheaval that will play havoc with our economic and social lives for some time to come if we are going to exert influence on that reality the challenges that we face moving forward must be conceptualized constructed and implemented today for as they argue the road to durable prosperity will be a long haul yet moving beyond these challenges per se they underscore that we are also presented with an exceptional opportunity the very real opportunity to create a sustainable commitment to responsible and responsive organizational performance one that can be fuelled and financed by our ability to translate the hidden costs that exist in all our organizations into productive value added activities and true wealth creation their analysis presents an intriguing challenge to traditional notions of corporate social responsibility delving into the idea of durably acceptable responsibility ways to facilitate greater stakeholder engagement and how we can capture ongoing and sustainable improvement in organizational performance

Change Dynamics in Healthcare, Technological Innovations, and Complex Scenarios

2024-02-26

in a world characterized by complexity and rapid change the intersection of healthcare social sciences and technology presents a formidable challenge the vast array of interconnected issues ethical dilemmas and technological advancements often evade comprehensive understanding within individual disciplines the problem lies in the siloed approach to these critical domains hindering our ability to navigate the complexities of our modern world effectively change dynamics in healthcare technological innovations and complex scenarios emerges as a transformative solution offering a beacon of insight and knowledge to those grappling with the intricate dynamics of our interconnected society change dynamics in healthcare technological innovations and complex scenarios dives into organizational narratives ethical challenges and technological promises across healthcare social sciences and technology it doesn t merely acknowledge the interplay between these disciplines it celebrates their interconnectedness by dissecting analyzing and synthesizing critical developments this book serves as a compass providing a rich resource for comprehending the multifaceted impacts of emerging changes

Climate Change Challenge (3C) and Social-Economic-Ecological Interface-Building

2016-06-04

this book is the outcome of two international conferences held at the isec in bangalore india the international conference on climate change and social ecological economical interface building modelling approach to exploring potential adaptation strategies for bio resource conservation and livelihood development held during 20 21 may 2015 and jointly organized by the centre for ecological economics and natural resources ceenr institute for social and economic change isec and the centre for environmental systems research cesr university of kassel germany and the international conference climate change and food security the global and indian contexts jointly hosted by the ceenr isec and the school of geosciences university of sydney on 18 19 february 2015 the selected papers presented in this book portray a broad range of international research efforts aimed at developing a deeper understanding of human environment systems but also at translating scientific knowledge into political and societal solutions and responses to the challenge of climate change

Marketing Strategy

2020-12-31

marketing strategy offers a unique and dynamic approach based on four underlying principles that underpin marketing today all customers differ all customers change all competitors react and all resources are limited the structured framework of this acclaimed textbook allows marketers to develop effective and flexible strategies to deal with diverse marketing problems under varying circumstances uniquely integrating marketing analytics and data driven techniques with fundamental strategic pillars the book exemplifies a contemporary evidence based approach this base toolkit will support students decision making processes and equip them for a world driven by big data the second edition builds on the first s successful core foundation with additional pedagogy and key updates research based action oriented and authored by world leading experts marketing strategy is the ideal resource for advanced undergraduate mba and emba students of marketing and executives looking to bring a more systematic approach to corporate marketing strategies new to this edition revised and updated throughout to reflect new research and industry developments including expanded coverage of digital marketing influencer marketing and social media strategies enhanced pedagogy including new worked examples of data analytics techniques and unsolved analytics driven case exercises to offer students hands on practice of data manipulation as well as classroom activities to stimulate peer to peer discussion expanded range of examples to cover over 250 diverse companies from 25 countries and most industry segments vibrant visual presentation with a new full colour design

Analytic Research Foundations for the Next-Generation Electric Grid

2016-05-15

electricity is the lifeblood of modern society and for the vast majority of people that electricity is obtained from large interconnected power grids however the grid that was developed in the 20th century and the incremental improvements made since then including its underlying analytic foundations is no longer adequate to completely meet the needs of the 21st century the next generation electric grid must be more flexible and resilient while fossil fuels will have their place for decades to come the grid of the future will need to accommodate a wider mix of more intermittent generating sources such as wind and distributed solar photovoltaics achieving this grid of the future will require effort on several fronts there is a need for continued shorter term engineering research and development building on the existing analytic foundations for the grid but there is also a need for more fundamental research to expand these analytic foundations analytic research foundations for the next generation electric grid provide guidance on the longer term critical areas for research in mathematical and computational sciences that is needed for the next generation grid it offers recommendations that are designed to help direct future research as the grid evolves and to give the nation s research and development infrastructure the tools it needs to effectively develop test and use this research

Building Dynamics

2015-06-12

buildings are increasingly dynamic equipped with sensors actuators and controllers they self adjust in response to changes in the external and internal environments and patterns of use building dynamics asks how this change manifests itself and what it means for architecture as buildings weather programs change envelopes adapt interiors are reconfigured systems replaced contributors including chuck hoberman robert kronenburg david

leatherbarrow kas oosterhuis enric ruiz geli and many others explore the changes buildings undergo and the scale and speed at which these occur examining which changes are necessary useful desirable and possible the first book to offer a coherent comprehensive approach to this topic it draws together arguments previously only available in scattered form featuring the latest technologies and design approaches used in contemporary practice the editors provide numerous examples of cutting edge work from leading designers and engineering firms working today an essential text for students taking design studio classes or courses in theory or technology at any level as well as professionals interested in the latest mechatronic technologies and design techniques

Solvation Dynamics

2019-07-03

this book highlights the latest advances and outlines future trends in aqueous solvation studies from the perspective of hydrogen bond transition by charge injection which reconciles the solvation dynamics molecular nonbond interactions and the extraordinary functionalities of various solutes on the solution bond network and properties focus is given on ionic and dipolar electrostatic polarization o h nonbond interaction anti hb and super hb repulsion and solute solute interactions its target audience includes researchers scientists and engineers in chemistry physics surface and interface science materials science and engineering

RoboCup 2002: Robot Soccer World Cup VI

2003-08-04

robocup 2002 the 6th robot world cup soccer and rescue competitions and conference took place during june 19 25 2002 at the fukuoka dome main venue in fukuoka japan it was by far the robocup event with the largest number of registered participants 1004 persons distributed in 188 teams from 29 countries and visitors around 120 000 persons as was done in its previous editions since 1997 the event included several robotic competitions and an international symposium the papers and posters presented at the symposium constitute the main part of this book league reports in the n section describe significant advances in each league and the results the symposium organizers received 76 submissions among which 17 papers 22 were accepted for oral presentation at the symposium first section of the book and 21 papers 29 were accepted as posters second section of the book most papers were evaluated by three reviewers each chosen from the members of the international program committee ipc the ipc consisted of a balanced combination of regular robocup participants and researchers from outside this community the reviewers worked hard to guarantee a fair review process the result of their work was a high quality symposium with very interesting presentations

Converter-Based Dynamics and Control of Modern Power Systems

2020-10-22

converter based dynamics and control of modern power systems addresses the ongoing changes and challenges in rotating masses of synchronous generators which are transforming dynamics of the electrical system these changes make it more important to consider and understand the role of power electronic systems and their characteristics in shaping the subtleties of the grid and this book fills that knowledge gap balancing theory discussion diagrams mathematics and data this reference provides the information needed to acquire a thorough overview of resilience issues and frequency definition and estimation in modern power systems this book offers an overview of classical power system dynamics and identifies ways of establishing future challenges and how they can be considered at a global level to overcome potential problems the book is designed to prepare future engineers for operating a system that will be driven by electronics and less by electromechanical systems includes theory on the emerging topic of electrical grids based on power electronics creates a good bridge between traditional theory and modern theory to support researchers and engineers links the two fields of power systems and power electronics in electrical engineering

Best Practices Are Stupid

2011-09-29

what if almost everything you know about creating a culture of innovation is wrong what if the way you are

measuring innovation is choking it what if your market research is asking all of the wrong questions it s time to innovate the way you innovate stephen shapiro is one of america s foremost innovation advisors whose methods have helped organizations like staples ge telefónica nasa the u s air force and usaa he teaches his clients that innovation isn t just about generating occasional new ideas it s about staying consistently one step ahead of the competition hire people you don t like bring in the right mix of people to unleash your team s full potential asking for ideas is a bad idea define challenges more clearly if you ask better questions you will get better answers don t think outside the box find a better box instead of giving your employees a blank slate provide them with well defined parameters that will increase their creative output failure is always an option looking at innovation as a series of experiments allows you to redefine failure and learn from your results shapiro shows that nonstop innovation is attainable and vital to building a high performing team improving the bottom line and staying ahead of the pack

Dynamics and Stability of Motion of Shock and Hybrid Systems

2019-04-15

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The Key to Newton's Dynamics

1996-02-29

while much has been written on the ramifications of newton s dynamics until now the details of newton s solution were available only to the physics expert the key to newton s dynamics clearly explains the surprisingly simple analytical structure that underlies the determination of the force necessary to maintain ideal planetary motion j bruce brackenridge sets the problem in historical and conceptual perspective showing the physicist s debt to the works of both descartes and galileo he tracks newton s work on the kepler problem from its early stages at cambridge before 1669 through the revival of his interest ten years later to its fruition in the first three sections of the first edition of the principia

Semantic Web Technologies and Applications in Artificial Intelligence of Things

2024-05-16

the confluence of artificial intelligence of things aiot and semantic technologies is nothing short of revolutionary the profound impact of this synergy extends far beyond the realms of industry research and society it shapes the very fabric of our future semantic technologies and applications in artificial intelligence of things is a meticulously crafted reference that not only acknowledges this significance but also serves as a guide for those navigating the complexities of industry 4 0 and aiot this curated compendium of cutting edge technologies acts as a veritable knowledge base for future developments as academics scholars and industry professionals the ideal audience of this book will find meticulously curated content that caters to their diverse interests and expertise covering topics ranging from smart agriculture manufacturing industry health sciences and government seasoned academics students and visionary industry leaders will find this book to be an indispensable guide that paves the way for innovation and progress

Dynamic Mechanical and Creep-Recovery Behavior of Polymer-Based Composites

2024-01-19

dynamic mechanical and creep recovery behaviour of polymer based composites mechanical and mathematical modeling covers mathematical modelling dynamic mechanical analysis and the ways in which various factors impact the creep recovery behaviour of polymer composites the effects of polymer molecular weight plasticizers cross linking agents and chemical treatment of filler material are addressed and information on thermoplastic and thermosetting polymer based composites is also covered including their various applications and the advantages

and disadvantages of their use in different settings the final 2 chapters of the book cover mathematical modeling of creep recovery behavior for polymer composites and software based simulation of creep recovery in polymer composites respectively dynamic mechanical and creep recovery behaviour of polymer based composites mechanical and mathematical modeling covers mathematical modelling dynamic mechanical analysis and the ways in which various factors impact the creep recovery behaviour of polymer composites the effects of polymer molecular weight plasticizers cross linking agents and chemical treatment of filler material are addressed and information on thermoplastic and thermosetting polymer based composites is also covered including their various applications and the advantages and disadvantages of their use in different settings the final 2 chapters of the book cover mathematical modeling of creep recovery behavior for polymer composites and software based simulation of creep recovery in polymer composites respectively analyzes the dynamic mechanical and creep recovery behaviors of thermoplastic and thermosetting polymer composites in a variety of applications features diverse mechanical mathematical models utilized to fit data collected from creep recovery studies covers various factors that influence dynamic mechanical properties discusses the advantages and disadvantages of using these materials in different settings

Engineering Applications of Dynamics of Chaos

2014-05-04

the treatment of chaotic dynamics in mathematics and physics during last two decades has led to a number of new concepts for the investigation of complex behavior in nonlinear dynamical processes the aim the cism course engineering applications of dynamics of chaos of which this is the proceedings volume was to make these concepts available to engineers and applied scientists possessing only such modest knowledges in mathematics which are usual for engineers for example graduating from a technical university the contents of the articles contributed by leading experts in this field cover not only theoretical foundations and algorithmic and computational aspects but also applications to engineering problems in the first article an introduction into the basic concepts for the investigation of chaotic behavior of dynamical systems is given which is followed in the second article by an extensive treatment of approximative analytical methods to determine the critical parameter values describing the onset of chaos the important relation between chaotic dynamics and the phenomenon of turbulence is treated in the third article by studying instabilities various fluid flows in this contribution also an introduction into interesting phenomenon of pattern formation is given the fourth and fifth articles present various applications to nonlinear oscillations including roll motions of ships rattling oscillations in gear boxes tumbling oscillations of satellites flutter motions of fluid carrying pipes and vibrations of robot arms in the final article a short treatment of hyperchaos is given

Action Research for Sustainability

2015-02-28

how can action research further new research orientations towards sustainability this book empirically situated in the field of upstream public engagement involving local residents researchers and practitioners in bottom up processes deliberating on urban sustainability answers this question by analysing processes of social learning the book addresses the need to move towards sustainability at societal level as a democratic challenge questioning the way we live on planet earth by conceptualising sustain ability as an immanent and emergent ability of ecological and social life continuously to renew itself without eroding its own foundation of existence it argues that since sustainability cannot be invented but only supported or eroded by science we need to reframe science in the role of sustaining sustain ability through analyses of a three year action research programme aiming to provide local citizens with a greater say in the future of urban sustainability research this book shows how action research can make important methodological contributions to processes of social learning between citizens and scientists by enabling free spaces in peoples everyday life and within academia where aspects of un sustainability can be addressed and new imaginations of more sustainable futures emerge

Structural Dynamics, Volume 3

2011-06-10

this the fifth volume of five from the 28th imac on structural dynamics and renewable energy 2010 brings together 146 chapters on structural dynamics it presents early findings from experimental and computational

investigations of on a wide range of area within structural dynamics including studies such as simulation and validation of ods measurements made using a continuous sldv method on a beam excited by a pseudo random signal comparison of image based laser and accelerometer measurements modal parameter estimation using acoustic modal analysis mitigation of vortex induced vibrations in long span bridges and vibration and acoustic analysis of brake pads for quality control

Parallel Computational Fluid Dynamics '96

1996-12-09

in the last decade parallel computing has been put forward as the only computational answer to the increasing computational needs arising from very large and complex fluid dynamic problems considerable efforts are being made to use parallel computers efficiently to solve several fluid dynamic problems originating in aerospace climate modelling and environmental applications parallel cfd conferences are international and aim to increase discussion among researchers worldwide topics covered in this particular book include typical cfd areas such as turbulence navier stokes and euler solvers reactive flows with a good balance between both university and industrial applications in addition other applications making extensive use of cfd such as climate modelling and environmental applications are also included anyone involved in the challenging field of parallel computational fluid dynamics will find this volume useful in their daily work

Applications of Chaos and Nonlinear Dynamics in Science and Engineering - Vol. 3

2013-06-12

chaos and nonlinear dynamics initially developed as a new emergent field with its foundation in physics and applied mathematics the highly generic interdisciplinary quality of the insights gained in the last few decades has spawned myriad applications in almost all branches of science and technology and even well beyond wherever quantitative modeling and analysis of complex nonlinear phenomena is required chaos theory and its methods can play a key role this third volume concentrates on reviewing further relevant contemporary applications of chaotic nonlinear systems as they apply to the various cutting edge branches of engineering this encompasses but is not limited to topics such fluctuation relations and chaotic dynamics in physics fractals and their applications in epileptic seizures as well as chaos synchronization featuring contributions from active and leading research groups this collection is ideal both as a reference and as a recipe book full of tried and tested successful engineering applications

Development Challenges, South-South Solutions: March 2014 Issue

2014-03-05

development challenges south south solutions is the monthly e newsletter of the united nations office for south south cooperation in undp southerninnovator.org it has been published every month since 2006 its sister publication southern innovator magazine has been published since 2011

Handbook of Research on Entrepreneurial Ecosystems and Social Dynamics in a Globalized World

2017-11-30

globalization demands the construction of new business methods to enable companies to remain highly competitive due to this demand cultural differences are now being implemented into policies and procedures as companies expand and seek to collaborate with international entrepreneurs the handbook of research on entrepreneurial ecosystems and social dynamics in a globalized world is a pivotal reference source for emergent aspects of internationalization and regional development in an entrepreneurial context featuring extensive coverage on relevant areas such as digital entrepreneurship sustainability and financial performance this publication is an ideal resource for academics public and private institutions developers professors researchers and post graduate students seeking current research on globalized entrepreneurship

Why Diversity, Equity, And Inclusion Matter: Challenges And Solutions

2023-12-05

this book integrates the current research on diversity equity and inclusion with corporate practice and describes how these initiatives affect organizations morale performance and output academic researchers corporate executives tasked with implementing diversity equity inclusion dei and regulators face the problem of balancing dei initiatives which could generate diverse ideas beneficial to the organization with concerns about diluting meritocracy building a diverse workforce could improve both organizational well being and social harmony research has shown that building a diverse workforce often results in communication and coordination issues and unjustified pay and performance gaps engendering feelings of exclusion among diverse individuals the book describes how organizations address these issues in various settings ranging from accounting firms to health care providers it covers settings with gender and racial diversities and clarifies the difference between equality and equity its coverage includes dealing with concealable disabilities and promoting equity across diverse populations in organizational and social settings

Challenges and Solutions for Climate Change

2012-05-22

the latest scientific knowledge on climate change indicates that higher greenhouse gas concentrations in the atmosphere through unchecked emissions will provoke severe climate change and ocean acidification both impacts can fundamentally alter environmental structures on which humanity relies and have serious consequences for the food chain among others climate change therefore poses major socio economic technical and environmental challenges which will have serious impacts on countries pathways towards sustainable development as a result climate change and sustainable development have increasingly become interlinked a changing climate makes achieving millennium development goals more difficult and expensive so there is every reason to achieve development goals with low greenhouse gas emissions this leads to the following five challenges discussed by challenges and solutions for climate change 1 to place climate negotiations in the wider context of sustainability equity and social change so that development benefits can be maximised at the same time as decreasing greenhouse gas emissions 2 to select technologies or measures for climate change mitigation and adaptation based on countries sustainable development and climate goals 3 to create low greenhouse gas emission and climate resilient strategies and action plans in order to accelerate innovation needed for achieving sustainable development and climate goals on the scale and timescale required within countries 4 to rationalize the current directions in international climate policy making in order to provide coherent and efficient support to developing countries in devising and implementing strategies and action plans for low emission technology transfers to deliver climate and sustainable development goals 5 to facilitate development of an international framework for financial resources in order to support technology development and transfer improve enabling environments for innovation address equity issues such as poor people s energy access and make implementation of activities possible at the desired scale within the country the solutions presented in challenges and solutions for climate change show how ambitious measures can be undertaken which are fully in line with domestic interests both in developing and in developed countries and how these measures can be supported through the international mechanisms

SAP Flexible Real Estate Management

2016-09-09

learn sap s real estate management integrated solution to effectively manage the real estate portfolio at your organization you will configure sap refx for business scenarios covering solutions from master data to financial posting and reporting you will address all phases of the real estate life cycle including real estate acquisition or disposal portfolio management and property and technical management to succeed in today s global and highly competitive economy asset optimization in real estate management has become a strategic task organizations need to ensure insight into their property portfolio to make informed decisions improve portfolio performance and reduce compliance costs sophisticated solutions are needed to manage changing consumer demands and the global workforce as well as information management compliance adherence and leasing and property

management sap flexible real estate management by daithankar is a full featured book that integrates refx with controlling co plant and maintenance pm crm sap aa sset accounting and sap ps project systems you will refer to real world practical examples to illustrate configuration concepts and processes and learn in an interactive hands on way through the use of screenshots menu paths and transaction codes throughout the book what you will learn understand the sap refx solutions landscape and industry best practices for sap refx implementation configure sap refx integrate refx with other modules understand how processes are supported by sap refx who this book is for cios ceos of organizations with real estate portfolios sap refx purchasing decision makers sap refx pre sales teams sap refx implementation ams consultants

Computational Fluid Dynamics

2018-02-14

this book is the result of a careful selection of contributors in the field of cfd it is divided into three sections according to the purpose and approaches used in the development of the contributions the first section describes the high performance computing hpc tools and their impact on cfd modeling the second section is dedicated to cfd models for local and large scale industrial phenomena two types of approaches are basically contained here one concerns the adaptation from global to local scale e g the applications of cfd to study the climate changes and the adaptations to local scale the second approach very challenging is the multiscale analysis the third section is devoted to cfd in numerical modeling approach for experimental cases its chapters emphasize on the numerical approach of the mathematical models associated to few experimental industrial cases here the impact and the importance of the mathematical modeling in cfd are focused on it is expected that the collection of these chapters will enrich the state of the art in the cfd domain and its applications in a lot of fields this collection proves that cfd is a highly interdisciplinary research area which lies at the interface of physics engineering applied mathematics and computer science

Building For Everyone

2020-08-20

diversity and inclusion to build better products from the front lines at google establishing diverse and inclusive organizations is an economic imperative for every industry any business that isn t reaching a diverse market is missing out on enormous revenue potential and the opportunity to build products that suit their users core needs the economic why has been firmly established but what about the how how can business leaders adapt to our ever more diverse world by capturing market share and building more inclusive products for people of color women and other underrepresented groups the product inclusion team at google has developed strategies to do just that and building for everyone is the practical guide to following in their footsteps this book makes publicly available for the first time the same inclusive design process used at google to create user centric award winning and profitable products author and head of product inclusion annie jean baptiste outlines what those practices look like in industries beyond tech with fascinating case studies readers will learn the key strategies and step by step processes for inclusive product design that limits risk and increases profitability discover the questions you should be asking about diversity and inclusion in your products for marketers user researchers product managers and more understand the research the product inclusion team drove to back up their practices learn the abcs of product inclusion to build inclusion into your organization s culture leverage the product inclusion suite of tools to get your organization building more inclusively and identifying new opportunities read case studies to see how product inclusion works across industries and learn what doesn t work building for everyone will show you how to infuse your business processes with inclusive design you ll learn best practices for inclusion in product design marketing management leadership and beyond straight from the innovative google product inclusion team

International Perspectives on Health and Safety among Dairy Workers: Challenges, Solutions and the Future

2018-01-16

this e book provides the insight into occupational health and safety problems challenges and solutions of the dairy sector thirty two authors have been sharing their results and knowledge reflecting the challenges from small scale farming up to industrial style the worldwide trend of growing farm sizes and a reduction in numbers is one of the major drivers for the changes in the working environment musculoskeletal disorders are among the most

prevalent health problems of people working on farms nevertheless mechanisation has not reduced the number of complaints and new problems arise due to the changing working environment

Computational Fluid Dynamics 2004

2006-09-27

those interested in state of the art in computational fluid dynamics will find this publication a valuable source of reference the contributions are drawn from the international conference on computational fluid dynamics iccfd held in 2004 the conference is staged every two years and brings together physicists mathematicians and engineers who review and share recent advances in mathematical and computational techniques for modeling fluid dynamics

Handbook of Research on Social and Organizational Dynamics in the Digital Era

2019-08-30

technology in the world today impacts every aspect of society and has infiltrated every industry affecting communication management security etc with the emergence of such technologies as iot big data cloud computing ai and virtual reality organizations have had to adjust the way they conduct business to account for changing consumer behaviors and increasing data protection awareness the handbook of research on social and organizational dynamics in the digital era provides relevant theoretical frameworks and the latest empirical research findings on all aspects of social issues impacted by information technology in organizations and inter organizational structures and presents the conceptualization of specific social issues and their associated constructs featuring coverage on a broad range of topics such as business management knowledge management and consumer behavior this publication seeks to advance the practice and understanding of technology and the impacts of technology on social behaviors and norms in the workplace and society it is intended for business professionals executives it practitioners policymakers students and researchers

Innovative Solutions for Sustainable Supply Chains

2018-08-28

this book presents the latest tools techniques and solutions that decision makers use to overcome the challenges faced by their sustainable supply chains given the ever increasing significance of socio economic and environmental factors the management of sustainable supply chains has become a complex and dynamic task multiple and conflicting objectives of stakeholders including suppliers manufacturers service providers and retailers add to the complexity of decisions that modern day managers of supply chains face with the unprecedented technological developments and innovations at hand sustainability can be maximized for all the activities of a supply chain including service concept and product design material sourcing and procurement manufacturing processes delivery of the final product and end of life management of the product consequently the sustainable supply chains problems require a systematic and integrated approach modeling and simulation in general as well as system dynamics and agent based modeling in particular have the capabilities to deal with the complexity of sustainable supply chain related problems this book will appeal to professionals and researchers in the field

Electron Dynamics in Molecular Interactions

2013-12-23

this volume provides a comprehensive introduction to the theory of electronic motion in molecular processes an increasingly relevant and rapidly expanding segment of molecular quantum dynamics emphasis is placed on describing and interpreting transitions between electronic states in molecules as they occur typically in cases of reactive scattering between molecules photoexcitation or nonadiabatic coupling between electronic and nuclear degrees of freedom electron dynamics in molecular interactions aims at a synoptic presentation of some very recent theoretical efforts to solve the electronic problem in quantum molecular dynamics contrasting them with

more traditional schemes the presented models are derived from their roots in basic quantum theory their interrelations are discussed and their characteristic applications to concrete chemical systems are outlined this volume also includes an assessment of the present status of electron dynamics and a report on novel developments to meet the current challenges in the field further this monograph responds to a need for a systematic comparative treatise on nonadiabatic theories of quantum molecular dynamics which are of considerably higher complexity than the more traditional adiabatic approaches and are steadily gaining in importance this volume addresses a broad readership ranging from physics or chemistry graduate students to specialists in the field of theoretical quantum dynamics contents preparations ab initio theory of electronic structure the adiabatic and the diabatic representation basic concepts of scattering theory semiclassical notions open systems elements of rate theory methods time independent theory of molecular collisions i multichannel scattering time independent theory of molecular collisions ii the electronic problem the time dependent self consistent field theory evolution of coherent molecular states electron nuclear dynamics theory the classical electron analog hopping and spawning semiclassical propagator techniques quantum hydrodynamics i coupled trajectories in bohmian mechanics quantum hydrodynamics ii the semiclassical liouville von neumann equation wavepacket propagation methods density functional dynamics decoherence special topics ultrafast optical spectroscopy optical control of electron multistate molecular dynamics electron transfer in condensed media electronic friction in molecule surface interactions readership graduate students and researchers in physical chemistry and computational physics industrial chemists and physicists interested in the field key features this book provides an overview of the recent nonadiabatic theories of quantum molecular dynamics that are widely used and highly acknowledged in the community of physical chemists there is currently no other book available in the market that shares the publication scope of this book it can be used as a supplementary textbook to graduate level course in quantum chemistry or chemical dynamics keywords nonadiabatic processes electronic transitions molecular dynamics quantum trajectories wavepacket propagation

Parallel Computational Fluid Dynamics 2004

2005-07-12

parallel cfd 2004 the sixteenth international conference on parallel computational fluid dynamics and other modern scientific domains has been held since may 24th till may 27th 2004 in las palmas de gran canaria spain the specialized high level parallel cfd conferences are organised on travelling locations all over the world yearly because of multidisciplinary subject of parallel cfd and its rapidly evolving nature the conference featured 8 invited lectures 3 mini symposia contributed papers and one tutorial short course more than 80 multi disciplinary presentations of the parallel cfd had been presented with participants from 17 countries the sessions involved contributed papers on many diverse subjects including turbulence complex flows unstructured and adaptive grids industrial applications developments in software tools and environments as parallel optimization tools this book presents an up to date overview of the state of the art in parallel computational fluid dynamics report on current research in the field researchers around the world are included subject is important to all interested in solving large fluid dynamics problems it is of interest to researchers in computer science engineering and physical sciences it is an interdisciplinary activity contributions include scientists with a variety of backgrounds it is an area which is rapidly changing

Special Topics in Structural Dynamics, Volume 6

2016-05-03

special topics in structural dynamics volume 6 proceedings of the 34th imac a conference and exposition on dynamics of multiphysical systems from active materials to vibroacoustics 2016 the sixth volume of ten from the conference brings together contributions to this important area of research and engineering the collection presents early findings and case studies on fundamental and applied aspects of structural dynamics including papers on analytical methods biological systems dynamic systems dynamics of multi physical systems structural control simulation

IUTAM Symposium on Intelligent Multibody Systems - Dynamics, Control, Simulation

2019-01-09

this volume which brings together research presented at the iutam symposium intelligent multibody systems dynamics control simulation held at sozopol bulgaria september 11 15 2017 focuses on preliminary virtual simulation of the dynamics of motion and analysis of loading of the devices and of their behaviour caused by the working conditions and natural phenomena this requires up to date methods for dynamics analysis and simulation novel methods for numerical solution of ode and dae real time simulation passive semi passive and active control algorithms applied examples are mechatronic intelligent multibody systems autonomous vehicles space structures structures exposed to external and seismic excitations large flexible structures and wind generators robots and bio robots the book covers the following subjects novel methods in multibody system dynamics real time dynamics dynamic models of passive and active mechatronic devices vehicle dynamics and control structural dynamics deflection and vibration suppression numerical integration of ode and dae for large scale and stiff multibody systems model reduction of large scale flexible systems the book will be of interest for scientists and academicians phd students and engineers at universities and scientific institutes

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