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Air Dispersion Modeling 2013-09-26 a single reference to all aspects of contemporary air dispersion modeling the practice of air dispersion modeling has changed dramatically in recent years in large part due to new epa regulations current with the epa's 40 cfr part 51 this book serves as a complete reference to both the science and contemporary practice of air dispersion modeling throughout the book author alex de visscher guides readers through complex calculations equation by equation helping them understand precisely how air dispersion models work including such popular models as the epa's aermod and calpuff air dispersion modeling begins with a primer that enables readers to quickly grasp basic principles by developing their own air dispersion model next the book offers everything readers need to work with air dispersion models and accurately interpret their results including full chapter dedicated to the meteorological basis of air dispersion examples throughout the book illustrating how theory translates into practice extensive discussions of gaussian lagrangian and eulerian air dispersion modeling detailed descriptions of the aermod and calpuff model formulations this book also includes access to a website with microsoft excel and matlab files that contain examples of air dispersion model calculations readers can work with these examples to perform their own calculations with its comprehensive and up to date coverage air dispersion modeling is recommended for environmental engineers and meteorologists who need to perform and evaluate environmental impact assessments the book's many examples and step by step instructions also make it ideal as a textbook for students in the fields of environmental engineering meteorology chemical engineering and environmental sciences

Structural Equation Modeling 2008-07-23 using detailed empirical examples structural equation modeling second edition presents a thorough and sophisticated treatment of the foundations of structural equation modeling sem it also demonstrates how sem can provide a unique lens on the problems social and behavioral scientists face intended audience while the book assumes some knowledge and background in statistics it guides readers through the foundations and critical assumptions of sem in an easy to understand manner

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Behavior Modeling -- Foundations and Applications 2015 this book constitutes revised selected papers from the six international workshops on behavior modelling foundations and applications bm fa which took place annually between 2009 and 2014 the 9 papers presented in this volume were carefully reviewed and selected from a total of 58 papers presented at these 6 workshops the contributions were organized in topical sections named modelling practices new ways of behaviour modelling events in modelling and new ways of behaviour modelling protocol modelling

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Structural Equation Modeling 1995-02-28 this largely nontechnical volume reviews some of the major issues facing researchers who wish to use structural equation modeling individual chapters present recent developments on specification estimation and testing statistical power software comparisons and analyzing multitrait multimethod data numerous examples of applications are given and attention is paid to the underlying philosophy of structural equation modeling and to writing up results from structural equation modeling analyses

Entity-Relationship Modeling 2013-03-09 this book is a comprehensive presentation of entity relationship er modeling with regard to an integrated development and modeling of database applications it comprehensively surveys the achievements of research in this field and deals with the er model and its extensions in addition the book presents techniques for the translation of the er model into classical database models and languages such as relational hierarchical and network models and languages as well as into object oriented models

Information Retrieval Models 2013-07-01 information retrieval ir models are a core component of ir research and ir systems the past decade brought a consolidation of the family of ir models which by 2000 consisted of relatively isolated views on tf idf term frequency times inverse document frequency as the weighting scheme in the vector space model vsm the probabilistic relevance framework prf the binary independence retrieval bir model bm25 best match version 25 the main instantiation of the prf bir and language modelling lm also the early 2000s saw the arrival of divergence from randomness dfr regarding intuition and simplicity though lm is clear from a probabilistic point of view several people stated it is easy to understand tf idf and bm25 for lm however we understand the math but we do not fully understand why it works this book takes a horizontal approach gathering the foundations of tf idf prf bir poisson bm25 lm probabilistic inference networks pin s and divergence based models the aim is to create a consolidated and balanced view on the main models a particular focus of this book is on the relationships between models this includes an overview over the main frameworks prf logical ir vsm generalized vsm and a pairing of tf idf with other models it becomes evident that tf idf and lm measure the same namely the dependence overlap between document and query the poisson probability helps to establish probabilistic non heuristic roots for tf idf and the poisson parameter average term frequency is a binding link between several retrieval models and model parameters table of contents list of figures preface acknowledgments introduction foundations of ir models

relationships between ir models summary research outlook bibliography author s biography index

Foundations of Physically Based Modeling and Animation 2017 building information modeling bim refers to the consistent and continuous use of digital information throughout the entire lifecycle of a built facility including its design construction and operation in order to exploit bim methods to their full potential a fundamental grasp of their key principles and applications is

essential accordingly this book combines discussions of theoretical foundations with reports from the industry on currently applied best practices the book's content is divided into six parts part i discusses the technological basics of bim and addresses computational methods for the geometric and semantic modeling of buildings as well as methods for process modeling next part ii covers the important aspect of the interoperability of bim software products and describes in detail the standardized data format industry foundation classes it presents the different classification systems discusses the data format citygml for describing 3d city models and cobie for handing over data to clients and also provides an overview of bim programming tools and interfaces part iii is dedicated to the philosophy organization and technical implementation of bim based collaboration and discusses the impact on legal issues including construction contracts in turn part iv covers a wide range of bim use cases in the different lifecycle phases of a built facility including the use of bim for design coordination structural analysis energy analysis code compliance checking quantity take off prefabrication progress monitoring and operation in part v a number of design and construction companies report on the current state of bim adoption in connection with actual bim projects and discuss the approach pursued for the shift toward bim including the hurdles taken lastly part vi summarizes the book's content and provides an outlook on future developments the book was written both for professionals using or programming such tools and for students in architecture and construction engineering programs

Building Information Modeling 2018-09-19 this book constitutes the proceedings of the 10th european conference on modelling foundations and applications ecmfa 2014 held as part of staf 2014 in york uk in july 2014 the 14 foundation track papers and the 3 applications track papers presented in this volume were carefully reviewed and selected from 58 submissions they are on all aspects of mde including topics such as model provenance model transformations and code generation model synthesis model driven testing formal modeling approaches business modeling and usability of models

Modelling Foundations and Applications 2014-07-10 this festschrift volume published in honor of john mylopoulos on the occasion of his retirement from the university of toronto contains 25 high quality papers written by leading scientists in the field of conceptual modeling the volume has been divided into six sections the first section focuses on the foundations of conceptual modeling and contains material on ontologies and knowledge representation the four sections on software and requirements engineering information systems information integration and web and services represent the chief current application domains of conceptual modeling finally the section on implementations concentrates on projects that build tools to support conceptual modeling with its in depth coverage of diverse topics this book could be a useful companion to a course on conceptual modeling

Conceptual Modeling: Foundations and Applications 2009-07-06 this open access book coherently gathers well founded information on the fundamentals of and formalisms for modelling cyber physical systems cps highlighting the cross disciplinary nature of cps modelling it also serves as a bridge for anyone entering cps from related areas of computer science or engineering truly complex engineered systems known as cyber physical systems that integrate physical software

and network aspects are now on the rise however there is no unifying theory nor systematic design methods techniques or tools for these systems individual mechanical electrical network or software engineering disciplines only offer partial solutions a technique known as multi paradigm modelling has recently emerged suggesting to model every part and aspect of a system explicitly at the most appropriate level s of abstraction using the most appropriate modelling formalism s and then weaving the results together to form a representation of the system if properly applied it enables among other global aspects performance analysis exhaustive simulation and verification this book is the first systematic attempt to bring together these formalisms for anyone starting in the field of cps who seeks solid modelling foundations and a comprehensive introduction to the distinct existing techniques that are multi paradigmatic though chiefly intended for master and post graduate level students in computer science and engineering it can also be used as a reference text for practitioners

Foundations of Multi-Paradigm Modelling for Cyber-Physical Systems 2020-05-07 this book constitutes the refereed joint proceedings of six workshops held in conjunction with the 26th international conference on conceptual modeling topics include conceptual modeling for life sciences applications foundations and practices of uml ontologies and information systems for the semantic quality of information systems requirements intentions and goals in conceptual modeling and semantic and conceptual issues in geographic information systems

Advances in Conceptual Modeling - Foundations and Applications 2007-11-13 this book presents a comprehensive topical overview on soil dynamics and foundation modeling in offshore and earthquake engineering the spectrum of topics include but is not limited to soil behavior soil dynamics earthquake site response analysis soil liquefactions as well as the modeling and assessment of shallow and deep foundations the author provides the reader with both theory and practical applications and thoroughly links the methodological approaches with engineering applications the book also contains cutting edge developments in offshore foundation engineering such as anchor piles suction piles pile torsion modeling soil ageing effects and scour estimation the target audience primarily comprises research experts and practitioners in the field of offshore engineering but the book may also be beneficial for graduate students

Soil Dynamics and Foundation Modeling 2017-11-26 this book constitutes the refereed proceedings of the 7th european conference on modelling foundations and applications held in birmingham uk in june 2011 the 19 revised full foundations track papers and 5 revised full applications track papers presented were carefully reviewed and selected from 61 submissions also included are 5 workshop summaries and abstracts of 4 tutorials the papers are organized in topical sections on model execution model analysis methodology model management model transformation variability analysis and adls and domain specific modeling

Modelling -- Foundation and Applications 2011-06-11 physics forms the basis for many of the motions and behaviors seen in both the real world and in the virtual worlds of animated films visual effects and computer games by describing the underlying physical principles and then creating simulations based on these principles these computer generated worlds are brought to life physically based modeling and animation goes behind the scenes of computer animation and details

the mathematical and algorithmic foundations that are used to determine the behavior underlying the movement of virtual objects and materials dr donald house and dr john keyser offer an approachable hands on view of the equations and programming that form the foundations of this field they guide readers from the beginnings of modeling and simulation to more advanced techniques enabling them to master what they need to know in order to understand and create their own animations emphasizes the underlying concepts of the field and is not tied to any particular software package language or api develops concepts in mathematics physics numerical methods and software design in a highly integrated way enhancing both motivation and understanding progressively develops the material over the book starting from very basic techniques and building on these to introduce topics of increasing complexity motivates the topics by tying the underlying physical and mathematical techniques directly to applications in computer animation

Foundations of Physically Based Modeling and Animation 2016-11-30 foundations of real estate financial modelling is specifically designed to provide an overview of pro forma modelling for real estate projects the book introduces students and professionals to the basics of real estate finance theory before providing a step by step guide for financial model construction using excel the idea that real estate is an asset with unique characteristics which can be transformed both physically and financially forms the basis of discussion individual chapters are separated by functional unit and build upon themselves to include information on amortization single family unit multi family unit development construction addition s waterfall equity bifurcation accounting statements additional asset classes further chapters are dedicated to risk quantification and include scenario stochastic and monte carlo simulations waterfalls and securitized products this book is the ideal companion to core real estate finance textbooks and will boost students excel modelling skills before they enter the workplace the book provides individuals with a step by step instruction on how to construct a real estate financial model that is both scalable and modular a companion website provides the pro forma models to give readers a basic financial model for each asset class as well as methods to quantify performance and understand how and why each model is constructed and the best practices for repositioning these assets

Foundations of Real Estate Financial Modelling 2015-04-10 this book constitutes the refereed proceedings of the 8th european conference on modelling foundations and applications held in kgs lyngby denmark in july 2012 the 20 revised full foundations track papers and 10 revised full applications track papers presented were carefully reviewed and selected from 81 submissions papers on all aspects of mde were received including topics such as architectural modelling and product lines code generation domain specic modeling metamodeling model analysis and verification model management model transformation and simulation the breadth of topics as well as the high quality of the results presented in these accepted papers demonstrate the maturity and vibrancy of the field

Modelling Foundations and Applications 2012-06-22 the first history of population ecology traces two generations of science and scientists from the opening of the twentieth century through 1970 kingsland chronicles the careers of key figures and the field s theoretical empirical and

institutional development with special attention to tensions between the descriptive studies of field biologists and later mathematical models this second edition includes a new afterword that brings the book up to date with special attention to the rise of the new natural history and debates about ecology's future as a large scale scientific enterprise

Modeling Nature 1995-10-16 the three volumes of interest rate modeling are aimed primarily at practitioners working in the area of interest rate derivatives but much of the material is quite general and we believe will also hold significant appeal to researchers working in other asset classes students and academics interested in financial engineering and applied work will find the material particularly useful for its description of real life model usage and for its expansive discussion of model calibration approximation theory and numerical methods preface

Interest Rate Modeling 2010 this book constitutes the proceedings of the 13th european conference on modelling foundations and applications ecmfa 2017 held as part of staf 2017 in marburg germany in july 2017 the 18 papers presented in this volume were carefully reviewed and selected from 48 submissions the papers are organized in the following topical sections meta modeling and language engineering model evolution and maintenance model driven generative development model consistency management model verification and analysis and experience reports case studies and new applications scenarios

Modelling Foundations and Applications 2017-06-20 foundations of info metrics provides an overview of modeling and inference rather than a problem specific model and progresses from the simple premise that information is often insufficient to provide a unique answer for decisions we wish to make each decision or solution is derived from the available input information along with a choice of inferential procedure

Foundations of Info-Metrics 2018 theory of modeling and simulation discrete event iterative system computational foundations third edition continues the legacy of this authoritative and complete theoretical work it is ideal for graduate and phd students and working engineers interested in posing and solving problems using the tools of logico mathematical modeling and computer simulation continuing its emphasis on the integration of discrete event and continuous modeling approaches the work focuses light on devs and its potential to support the co existence and interoperation of multiple formalisms in model components new sections in this updated edition include discussions on important new extensions to theory including chapter length coverage of iterative system specification and devs and their fundamental importance closure under coupling for iteratively specified systems existence uniqueness non deterministic conditions and temporal progressiveness legitimacy presents a 40 revised and expanded new edition of this classic book with many important post 2000 extensions to core theory provides a streamlined introduction to discrete event system specification devs formalism for modeling and simulation packages all the need to know information on devs formalism in one place expanded to include an online ancillary package including numerous examples of theory and implementation in devs based software student solutions and instructors manual

Theory of Modeling and Simulation 2018-08-14 this book constitutes the proceedings of the 11th european conference on modelling foundations and applications ecmfa 2015 held as part of staf 2015

in l aquila utaly in july 2015 the 13 papers presented in this volume were carefully reviewed and selected from 54 submissions the committee decided to accept 13 papers 9 papers for the foundations track and 4 papers for the applications track papers on a wide range of mbe aspects were accepted including topics such as aspect oriented modeling model management model transformation advanced meta modeling uml modeling tools and domain specific modeling w r t energy consumption and cloud based systems

Modelling Foundations and Applications 2015-07-16 this user s reference is a companion to the separate book also titled guide to modelling and simulation of systems of systems the principal book explicates integrated development environments to support virtual building and testing of systems of systems covering in some depth the ms4 modelling environmenttm this user s reference provides a quick reference and exposition of the various concepts and functional features covered in that book the topics in the user s reference are grouped in alignment with the workflow displayed on the ms4 modeling environmenttm launch page under the headings atomic models system entity structure pruning ses and miscellaneous for each feature the reference discusses why we use it when we should use it and how to use it further comments and links to related features are also included

Guide to Modeling and Simulation of Systems of Systems 2012-10-22 this monograph presents approaches to characterize inelastic behavior of materials and structures at high temperature starting from experimental observations it discusses basic features of inelastic phenomena including creep plasticity relaxation low cycle and thermal fatigue the authors formulate constitutive equations to describe the inelastic response for the given states of stress and microstructure they introduce evolution equations to capture hardening recovery softening ageing and damage processes principles of continuum mechanics and thermodynamics are presented to provide a framework for the modeling materials behavior with the aim of structural analysis of high temperature engineering components

Modeling High Temperature Materials Behavior for Structural Analysis 2016-05-11 kobayashi and mark present the most up to date analytical models simulation techniques and computational algorithms useful for performance evaluation of complex systems including computer systems communication networks transportation systems and manufacturing systems broader in scope than other texts this book provides more in depth coverage of topics such as computational algorithms and approximations it appeals to students with a background or interest in a wide range of areas including systems analysis or telecommunication networks publisher s website

System Modeling and Analysis 2009 this book constitutes the proceedings of the 9th european conference on modelling foundations and applications ecmfa 2013 held in montpellier france in july 2013 the 15 papers presented in this volume were carefully reviewed and selected from 51 submissions they are on all aspects of mde including topics such as model querying consistency checking model transformation and model based systems engineering and domain specific modeling

Modelling Foundations and Applications 2013-06-25 this book constitutes the proceedings of the 14th european conference on modelling foundations and applications ecmfa 2018 held as part of staf

2018 in toulouse france in june 2018 the 19 papers presented in this volume were carefully reviewed and selected from 45 submissions the cover topics such as bidirectional and unidirectional model transformations model management re engineering modelling environments verification and validation and domain specific modelling w r t business processes automotive software and safety critical software

Modelling Foundations and Applications 2018-06-18 a valuable overview of the most important ideas and results in statistical modeling written by a highly experienced author foundations of linear and generalized linear models is a clear and comprehensive guide to the key concepts and results of linear statistical models the book presents a broad in depth overview of the most commonly used statistical models by discussing the theory underlying the models r software applications and examples with crafted models to elucidate key ideas and promote practical modelbuilding the book begins by illustrating the fundamentals of linear models such as how the model fitting projects the data onto a model vector subspace and how orthogonal decompositions of the data yield information about the effects of explanatory variables subsequently the book covers the most popular generalized linear models which include binomial and multinomial logistic regression for categorical data and poisson and negative binomial loglinear models for count data focusing on the theoretical underpinnings of these models foundations of linear and generalized linear models also features an introduction to quasi likelihood methods that require weaker distributional assumptions such as generalized estimating equation methods an overview of linear mixed models and generalized linear mixed models with random effects for clustered correlated data bayesian modeling and extensions to handle problematic cases such as high dimensional problems numerous examples that use r software for all text data analyses more than 400 exercises for readers to practice and extend the theory methods and data analysis a supplementary website with datasets for the examples and exercises an invaluable textbook for upper undergraduate and graduate level students in statistics and biostatistics courses foundations of linear and generalized linear models is also an excellent reference for practicing statisticians and biostatisticians as well as anyone who is interested in learning about the most important statistical models for analyzing data

Foundations of Linear and Generalized Linear Models 2015-01-15 emotion connects the thought to the body which is a magnificent biological vice for sensing and affecting the world the thought controls the body through emotions the body affects the thought through emotions through this mechanism the thought allows the agent to behave intelligently in the complex world filled with a huge amount of dynamic information the emotion maps a flux of information into a space which the agent is familiar with enabling her him to associate ongoing events with past experiences which help to reduce complexity by providing with a nominal solution recent findings in brain science suggest that mirror neurons map visual signals into motor signals for the body this mechanism might permit one to experience the emotion of the other agent just by feeling the motor signals caused by mirror neurons as a result of visual stimuli caused by the other agent s emotional behaviors in particular it might play a significant role in invoking empathy in a social situation it may not be hard to think about what might happen to emotion less machines the emotion less machines may not be able to accumulate experiences to avoid serious failures they

may not be able to communicate with the humans in an empathetic way

Modelling Machine Emotions for Realizing Intelligence 2010-06-21 this book constitutes the refereed joint proceedings of six workshops held in conjunction with the 26th international conference on conceptual modeling topics include conceptual modeling for life sciences applications foundations and practices of uml ontologies and information systems for the semantic quality of information systems requirements intentions and goals in conceptual modeling and semantic and conceptual issues in geographic information systems

Advances in Conceptual Modeling - Foundations and Applications 2007-10-15 heterogeneous object modelling is a new and quickly developing research area this book is one of the first attempts to systematically cover the most relevant themes and problems of this new and challenging subject area it is a collection of invited papers and papers co authored by the editors each chapter presents either new research results or a survey on the following topics formal models and abstractions of heterogeneous objects including geometric topological discrete and continuous models operations forming special algebras and conversions between different model types data structures and algorithms for representing modifying and computing with heterogeneous objects computational techniques for the design reconstruction optimization analysis and simulation of heterogeneous objects that incorporate information on shape material and physical behavior using a common framework applications of heterogeneous object modelling in engineering and scientific areas including geophysical biomedical artistic and multi material fabrication applications

Heterogeneous Objects Modelling and Applications 2008-05-16 an extensive and comprehensive survey of one and three dimensional damage models for elastic and inelastic solids the book not only provides a rich current source of knowledge but also describes examples of practical applications numerical procedures and computer codes the style throughout is systematic clear and concise and supported by illustrative diagrams the state of the art is given by some 200 references

Modeling of Material Damage and Failure of Structures 1999 this graduate level text covers modeling programming and analysis of simulation experiments and provides a rigorous treatment of the foundations of simulation and why it works it introduces object oriented programming for simulation covers both the probabilistic and statistical basis for simulation in a rigorous but accessible manner providing all necessary background material and provides a modern treatment of experiment design and analysis that goes beyond classical statistics the book emphasizes essential foundations throughout rather than providing a compendium of algorithms and theorems and prepares the reader to use simulation in research as well as practice the book is a rigorous but concise treatment emphasizing lasting principles but also providing specific training in modeling programming and analysis in addition to teaching readers how to do simulation it also prepares them to use simulation in their research no other book does this an online solutions manual for end of chapter exercises is also be provided

Foundations and Methods of Stochastic Simulation 2013-01-31 this highly informative and carefully presented book comprises select proceedings of foundation for molecular modelling and simulation fomms 2018 the contents are written by invited speakers centered on the theme innovation for complex systems it showcases new developments and applications of computational

quantum chemistry statistical mechanics molecular simulation and theory and continuum and engineering process simulation this volume will serve as a useful reference to researchers academicians and practitioners alike

Foundations of Molecular Modeling and Simulation 2021-03-25 this book constitutes the proceedings of the 6th european conference on modelling foundations and applications held in paris france in june 2010

Modelling Foundations and Applications 2010-06-01 this comprehensive textbook reference provides an in depth overview of the key aspects of transportation analysis with an emphasis on modeling real transportation systems and executing the models topics and features presents comprehensive review questions at the end of each chapter together with detailed case studies useful links references and suggestions for further reading supplies a variety of teaching support materials at the book s webpage on springer com including a complete set of lecture slides examines the classification of models used for multimodal transportation systems and reviews the models and evaluation methods used in transportation planning explains traffic assignment to road networks and describes computer simulation integration platforms and their use in the transportation systems sector provides an overview of transportation simulation tools and discusses the critical issues in the design development and use of the simulation models

Introduction to Transportation Analysis, Modeling and Simulation 2014-10-13 model uncertainties in foundation design is unique in the compilation of the largest and the most diverse load test databases to date covering many foundation types shallow foundations spudcans driven piles drilled shafts rock sockets and helical piles and a wide range of ground conditions soil to soft rock all databases with names prefixed by nus are available upon request this book presents a comprehensive evaluation of the model factor mean bias and coefficient of variation cov for ultimate and serviceability limit state based on these databases these statistics can be used directly for aashto lrfd calibration besides load test databases performance databases for other geo structures and their model factor statistics are provided based on this extensive literature survey a practical three tier scheme for classifying the model uncertainty of geo structures according to the model factor mean and cov is proposed this empirically grounded scheme can underpin the calibration of resistance factors as a function of the degree of understanding a concept already adopted in the canadian highway bridge design code and being considered for the new draft for eurocode 7 part 1 en 1997 1 202x the helical pile research in chapter 7 was recognised by the 2020 asce norman medal

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