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KEY=SYSTEMS - CARLO ANGIE

Identification of Linear Systems

A Practical Guideline to Accurate Modeling

Elsevier This book concentrates on the problem of accurate modeling of linear systems. It presents a thorough description of a method of modeling a linear dynamic invariant system by its transfer function. The first two chapters provide a general introduction and review for those readers who are unfamiliar with identification theory so that they have a sufficient background knowledge for understanding the methods described later. The main body of the book looks at the basic method used by the authors to estimate the parameter of the transfer function, how it is possible to optimize the excitation signals. Further chapters extend the estimation method proposed. Applications are then discussed and the book concludes with practical guidelines which illustrate the method and offer some rules-of-thumb.

A Practical Guide to Analog Behavioral Modeling for IC System Design

Springer Science & Business Media A Practical Guide to Analog Behavioral Modeling for IC System Design presents a methodology for abstracting an IC system so that the designer can gain a macroscopic view of how sub-systems interact, as well as verify system functionality in various applications before committing to a design. This will prevent problems that may be caused late in the design-cycle by incompatibilities between the individual blocks that comprise the overall system. This book will focus on the techniques of modelling IC systems through analog behavioral modeling and simulation. It will investigate a practical approach by which designers can put together these systems to analyze topological and architectural issues to optimize IC system performance. **Highlights:** Discussions on modeling and simulation from SPICE to behavioral simulators Comparison of various hardware description languages and a discussion on the effects of language standardization Explanation on how to reduce time-to-market by decreasing design-cycle time through modeling and simulation Contains more than 25 building block examples that can be used to construct mixed-signal IC system models Analysis of 4 different IC systems using various levels of model detail This book is intended for the practicing engineer who would like to gain practical knowledge in applications of analog behavioral modelling for IC system design.

A Practical Guide to Reliable Finite Element Modelling

John Wiley & Sons Many books have been written about the finite element method; little however has been written about procedures that assist a practicing engineer in undertaking an analysis in such a way that errors and uncertainties can be controlled. In A Practical Guide to Reliable Finite Element Modelling, Morris addresses this important area. His book begins by introducing the reader to finite element analysis (FEA), covering the fundamental principles of the method, whilst also outlining the potential problems involved. He then establishes consistent methods for carrying out analyses and obtaining accurate and reliable results, concluding with a new method for undertaking error control led analyses which

is illustrated by means of two case studies. The book addresses a number of topics that:

- Systematically cover an introduction to FEA, how computers build linear-static and linear-dynamic finite element models, the identification of error sources, error control methods and error-controlled analyses.
- Enable the reader to support the design of complex structures with reliable, repeatable analyses using the finite element method.
- Provide a basis for establishing good practice that could underpin a legal defence in the event of a claim for negligence.

A Practical Guide to Reliable Finite Element Modelling will appeal to practising engineers engaged in conducting regular finite element analyses, particularly those new to the field. It will also be a resource for postgraduate students and researchers addressing problems associated with errors in the finite element method. This book is supported by an author maintained website at <http://www.femec.co.uk>

A Practical Guide to SysML

The Systems Modeling Language

Morgan Kaufmann A Practical Guide to SysML: The Systems Modeling Language is a comprehensive guide to SysML for systems and software engineers. It provides an advanced and practical resource for modeling systems with SysML. The source describes the modeling language and offers information about employing SysML in transitioning an organization or project to model-based systems engineering. The book also presents various examples to help readers understand the OMG Systems Modeling Professional (OCSMP) Certification Program. The text is organized into four parts. The first part provides an overview of systems engineering. It explains the model-based approach by comparing it with the document-based approach and providing the modeling principles. The overview of SYsML is also discussed. The second part of the book covers a comprehensive description of the language. It discusses the main concepts of model organization, parametrics, blocks, use cases, interactions, requirements, allocations, and profiles. The third part presents examples that illustrate how SysML supports different model-based procedures. The last part discusses how to transition and deploy SysML into an organization or project. It explains the integration of SysML into a systems development environment. Furthermore, it describes the category of data that are exchanged between a SysML tool and other types of tools, and the types of exchange mechanisms that can be used. It also covers the criteria that must be considered when selecting a SysML. Software and systems engineers, programmers, IT practitioners, experts, and non-experts will find this book useful. *The authoritative guide for understanding and applying SysML *Authored by the foremost experts on the language *Language description, examples, and quick reference guide included

Agent-Based Modeling and Simulation I

Practical Guide to the Analysis of Complex Systems

Independently Published An Agent Based Model (ABM) allows simulating the actions and interactions of many agents or entities in order to evaluate their impact on the system as a whole. These models are used in areas such as industry, business, biology, ecology, and the social sciences. CONTRIBUTIONS - IMMEDIATE RESULTS. From the first pages the reader is already able to create a model. - FREE SOFTWARE. The use of specific and free software for personal and educational use. - WITHOUT PRIOR TRAINING. Knowing how to program in Java, C ++, Python, Anylogic, etc. is not required. - GUIDE. A neat guide that explains each step in detail, for quick learning. - MODELS. The explanation of 40 didactic models, created to learn progressively. - FIGURES. The support of more than 1000 figures to advance clearly in each stage. - VIDEOS. The models described, together with various help videos, can be downloaded. - PRACTICAL. A practical approach allows the reader to see the possible applications to their environment. - EXPERIENCE. The teaching experience of the author and the reviewers has allowed the text to be refined to the maximum. AUTHOR AND REVIEWERS Juan Martín García is a Doctor of Industrial Engineering in Business Organization from the UPC (Spain) and a Diploma from the Sloan School of Management at MIT (USA). He has more than 30 years of experience as a consultant for companies and public organizations using simulation models based on System Dynamics. Professor at several Spanish and Latin American universities, he teaches online courses at Vensim <https://vensim.com/vensim-online-courses/> (in English) and System Dynamics at ATC-Innova <http://atc-innova.com/> (Spanish). He is the author of books and lectures on business, social and environmental applications of simulation models. - Dr. Francisco Campuzano Bolarín, Professor of Business Organization at the Polytechnic University of Cartagena (UPCT).- Lening Mora, M.S Environmental & Occupational Health (San Diego, California) and Postgraduate Diploma in Healthcare Modeling and Simulation at Naval Postgraduate School (Monterey, California USA).- Professor Gavin Melles, PhD, MSc Swinburne University (Victoria, Australia). INDEX Presentation Software Installation Working screen A model in

1 minute Concepts Functions and tables Variables Model: Traffic light Model: Paris Rome Attributes Model: Rio Bravo 2 Model: Truck Fleet Collections and aggregates Model: Dragons and Castles Model: Parents and Children Model: The Four Pirates References Model: White and Black Model: White and Black 2 Model: White and Black 3 Comments Tools Entities initial parameters Model: Horse Racing Temporal parameters Model: Satellite Launch External data entities Import initial data Import time series data Model: My three rabbits Exercises Model: Rabbit Population Model: Rabbit Population 2 Model: Rabbit Population 3 Model: Rabbit population 4 Model: Rabbit population 5 Model: Sweet candies Model: Cheese shop Model: Cheese Shop 2 Model: Formula 1 drivers Model: Patients and hospitals Model: Horse breeding Model: Horse breeding 2 Model: Horse breeding 3 Model: Horse breeding 4 Model: Horse breeding 5 Model: Fighter aircraft Model: Fighter Aircraft 2 Model: Fishing in three seas Model: Fishing in three seas 2 Model: Fishing in three seas 3 Model: Fishing in three seas 4 Model: Fishing in three seas 5 Model: Gold Market Model: Gold Market 2 Model: Gold Market 3 Model: Gold Market 4 Model: Eco Restaurant Model: Beer Game

An Introductory Guide to EC Competition Law and Practice

Clinical Practice Guidelines We Can Trust

National Academies Press Advances in medical, biomedical and health services research have reduced the level of uncertainty in clinical practice. Clinical practice guidelines (CPGs) complement this progress by establishing standards of care backed by strong scientific evidence. CPGs are statements that include recommendations intended to optimize patient care. These statements are informed by a systematic review of evidence and an assessment of the benefits and costs of alternative care options. Clinical Practice Guidelines We Can Trust examines the current state of clinical practice guidelines and how they can be improved to enhance healthcare quality and patient outcomes. Clinical practice guidelines now are ubiquitous in our healthcare system. The Guidelines International Network (GIN) database currently lists more than 3,700 guidelines from 39 countries. Developing guidelines presents a number of challenges including lack of transparent methodological practices, difficulty reconciling conflicting guidelines, and conflicts of interest. Clinical Practice Guidelines We Can Trust explores questions surrounding the quality of CPG development processes and the establishment of standards. It proposes eight standards for developing trustworthy clinical practice guidelines emphasizing transparency; management of conflict of interest ; systematic review--guideline development intersection; establishing evidence foundations for and rating strength of guideline recommendations; articulation of recommendations; external review; and updating. Clinical Practice Guidelines We Can Trust shows how clinical practice guidelines can enhance clinician and patient decision-making by translating complex scientific research findings into recommendations for clinical practice that are relevant to the individual patient encounter, instead of implementing a one size fits all approach to patient care. This book contains information directly related to the work of the Agency for Healthcare Research and Quality (AHRQ), as well as various Congressional staff and policymakers. It is a vital resource for medical specialty societies, disease advocacy groups, health professionals, private and international organizations that develop or use clinical practice guidelines, consumers, clinicians, and payers.

Groundwater Geochemistry

A Practical Guide to Modeling of Natural and Contaminated Aquatic Systems

Springer Science & Business Media To understand hydrochemistry and to analyze natural as well as man-made impacts on aquatic systems, hydrogeochemical models have been used since the 1960's and more frequently in recent times. Numerical groundwater flow, transport, and geochemical models are important tools besides classical deterministic and analytical approaches. Solving complex linear or non-linear systems of equations, commonly with hundreds of unknown parameters, is a routine task for a PC. Modeling hydrogeochemical processes requires a detailed and accurate water analysis, as well as thermodynamic and kinetic data as input. Thermodynamic data, such as complex formation constants and solubility-products, are often provided as databases within the respective programs. However, the description of surface-controlled reactions (sorption, cation exchange, surface complexation) and kinetically controlled reactions requires additional input data. Unlike groundwater flow and transport models, thermodynamic models, in principal, do not need any calibration. However, considering surface-controlled or kinetically controlled reaction models might be subject to calibration. Typical problems for the application of geochemical models are: • speciation • determination of saturation indices • adjustment of equilibria/disequilibria for minerals or gases • mixing of different waters • modeling the effects of temperature • stoichiometric reactions (e.g. titration) • reactions with solids, fluids, and gaseous phases (in open and closed systems) • sorption (cation

exchange, surface complexation) • inverse modeling • kinetically controlled reactions • reactive transport Hydrogeochemical models depend on the quality of the chemical analysis, the boundary conditions presumed by the program, theoretical concepts (e.g.

A Practical Guide to Ecological Modelling

Using R as a Simulation Platform

Springer Science & Business Media Mathematical modelling is an essential tool in present-day ecological research. Yet for many ecologists it is still problematic to apply modelling in their research. In our experience, the major problem is at the conceptual level: proper understanding of what a model is, how ecological relations can be translated consistently into mathematical equations, how models are solved, steady states calculated and interpreted. Many textbooks jump over these conceptual hurdles to dive into detailed formulations or the mathematics of solution. This book attempts to fill that gap. It introduces essential concepts for mathematical modelling, explains the mathematics behind the methods, and helps readers to implement models and obtain hands-on experience. Throughout the book, emphasis is laid on how to translate ecological questions into interpretable models in a practical way. The book aims to be an introductory textbook at the undergraduate-graduate level, but will also be useful to seduce experienced ecologists into the world of modelling. The range of ecological models treated is wide, from Lotka-Volterra type of principle-seeking models to environmental or ecosystem models, and including matrix models, lattice models and sequential decision models. All chapters contain a concise introduction into the theory, worked-out examples and exercises. All examples are implemented in the open-source package R, thus taking away problems of software availability for use of the book. All code used in the book is available on a dedicated website.

Energy Modelling in Architecture: A Practice Guide

A practice guide

Routledge This book offers a practical guide to embedding energy modelling in architectural practice. With expert contributions from leading architects and practices, this book illustrates architects' approaches to learning, sharing and integrating energy modelling across a range of design projects, in both small and large firms in the UK and internationally. Discussing the practical and business implications of embedding energy modelling in practice, this is an essential manual for the energy-literate architect.

Mixed-Signal Methodology Guide

Lulu.com

Frameworks for Developing Efficient Information Systems: Models, Theory, and Practice

Models, Theory, and Practice

IGI Global As advances in technology continue to generate the collective knowledge of an organization and its operations, strategic models for information systems are developed in order to arrange business processes and business data. Frameworks for Developing Efficient Information Systems: Models, Theory, and Practice presents research and practices on the advancements in systems analysis and design. These theoretical frameworks and practical solutions are useful for researchers, practitioners, and academicians as this book aims to bridge the communication gap between business managers and system designers.

Use Case Modeling

Addison-Wesley Professional Discusses how to define and organize use cases that model the user requirements of a software application. The approach focuses on identifying all the parties who will be using the system, then writing detailed use case descriptions and structuring the use case model. An ATM example runs throughout the book. The authors work at Rational Software. Annotation copyrighted by Book News, Inc., Portland, OR

The Practice of Enterprise Modeling

7th IFIP WG 8.1 Working Conference, PoEM 2014, Manchester, UK, November 12-13, 2014, Proceedings

Springer This volume constitutes the proceedings of the 7th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2014 in Manchester, UK. The focus of the PoEM conference series is on advances in the practice of enterprise modeling through a forum for sharing knowledge and experiences between the academic community and practitioners from industry and the public sector. The 16 full and four short papers accepted were carefully reviewed and selected from 39 submissions. They reflect different topics of enterprise modeling including business process modeling, enterprise architecture, investigation of enterprise modeling methods, requirements engineering, and specific aspects of enterprise modeling.

The Practice of Enterprise Modeling

8th IFIP WG 8.1. Working Conference, PoEM 2015, Valencia, Spain, November 10-12, 2015, Proceedings

Springer This volume constitutes the proceedings of the 8th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2015 in Valencia, Spain. The PoEM conference series started in 2008 and aims to provide a forum sharing knowledge and experiences between the academic community and practitioners from industry and the public sector. The 23 short papers accepted were carefully reviewed and selected from 72 submissions and are organized in eight sections on Evolving Enterprises, Securing Enterprises, Making Empirical Studies, Investigating Enterprise Methods, Acquiring User Information, Managing Risks and Threats, Engineering Methods, and Making Decisions in Enterprises.

Data Modeling Theory and Practice

Technics Publications Data Modeling Theory and Practice is for practitioners and academics who have learned the conventions and rules of data modeling and are looking for a deeper understanding of the discipline. The coverage of theory includes a detailed review of the extensive literature on data modeling and logical database design, referencing nearly 500 publications, with a strong focus on their relevance to practice. The practice component incorporates the largest-ever study of data modeling practitioners, involving over 450 participants in interviews, surveys and data modeling tasks. The results challenge many long-held assumptions about data modeling and will be of interest to academics and practitioners alike. Graeme Simsion brings to the book the practical perspective and intellectual clarity that have made his Data Modeling Essentials a classic in the field. He begins with a question about the nature of data modeling (design or description), and uses it to illuminate such issues as the definition of data modeling, its philosophical underpinnings, inputs and deliverables, the necessary behaviors and skills, the role of creativity, product diversity, quality measures, personal styles, and the differences between experts and

novices. *Data Modeling Theory and Practice* is essential reading for anyone involved in data modeling practice, research, or teaching.

The Practice of Enterprise Modeling

Second IFIP WG 8.1 Working Conference, PoEM 2009, Stockholm, Sweden, November 18-19, 2009, Proceedings

Springer Enterprise modeling (EM) has gained substantial popularity both in the academic community and among practitioners. A variety of EM methods, approaches, and tools are being developed and offered on the market. In practice they are used for various purposes such as business strategy development, process restructuring, as well as business and IT architecture alignment and governance. PoEM 2009 - the second IFIP WG 8.1 Working Conference on The Practice of Enterprise Modeling took place in November in Stockholm, Sweden. The conference series is a dedicated forum where the use of EM in practice is addressed by bringing together researchers, users, and practitioners in order to develop a better understanding of the practice of EM, to contribute to improved EM practice as well as to share knowledge and experiences. PoEM 2009 attracted 41 submissions from many different parts of the world, out of which the Program Committee selected 17 high-quality papers. Among the authors of these papers we find both researchers and practitioners. The resulting program reflects the fact that the topic of EM encompasses human, organizational issues, as well as more technical aspects related to the development of information systems. The program was organized in six thematic sessions: ? Experiences in EM ? The process of modeling ? EM in information systems development ? Model quality and reuse ? EM for Services modeling ? New ventures in EM The program also featured two keynotes by experienced EM practitioners. Håvard D.

Effective Groundwater Model Calibration

With Analysis of Data, Sensitivities, Predictions, and Uncertainty

John Wiley & Sons **Methods and guidelines for developing and using mathematical models Turn to Effective Groundwater Model Calibration for a set of methods and guidelines that can help produce more accurate and transparent mathematical models. The models can represent groundwater flow and transport and other natural and engineered systems. Use this book and its extensive exercises to learn methods to fully exploit the data on hand, maximize the model's potential, and troubleshoot any problems that arise. Use the methods to perform: Sensitivity analysis to evaluate the information content of data Data assessment to identify (a) existing measurements that dominate model development and predictions and (b) potential measurements likely to improve the reliability of predictions Calibration to develop models that are consistent with the data in an optimal manner Uncertainty evaluation to quantify and communicate errors in simulated results that are often used to make important societal decisions Most of the methods are based on linear and nonlinear regression theory. Fourteen guidelines show the reader how to use the methods advantageously in practical situations. Exercises focus on a groundwater flow system and management problem, enabling readers to apply all the methods presented in the text. The exercises can be completed using the material provided in the book, or as hands-on computer exercises using instructions and files available on the text's accompanying Web site. Throughout the book, the authors stress the need for valid statistical concepts and easily understood presentation methods required to achieve well-tested, transparent models. Most of the examples and all of the exercises focus on simulating groundwater systems; other examples come from surface-water hydrology and geophysics. The methods and guidelines in the text are broadly applicable and can be used by students, researchers, and engineers to simulate many kinds systems.**

A Practical Guide to SysML

The Systems Modeling Language

Morgan Kaufmann A Practical Guide to SysML, Third Edition, fully updated for SysML version 1.4, provides a comprehensive and practical guide for modeling systems with SysML. With their unique perspective as leading contributors to the language, Friedenthal, Moore, and Steiner provide a full description of the language along with a quick reference guide and practical examples to help you use SysML. The book begins with guidance on the most commonly used features to help you get started quickly. Part 1 explains the benefits of a model-based approach, providing an overview of the language and how to apply SysML to model systems. Part 2 includes a comprehensive description of SysML that provides a detailed understanding that can serve as a foundation for modeling with SysML, and as a reference for practitioners. Part 3 includes methods for applying model-based systems engineering using SysML to specify and design systems, and how these methods can help manage complexity. Part 4 deals with topics related to transitioning MBSE practice into your organization, including integration of the system model with other engineering models, and strategies for adoption of MBSE. Learn how and why to deploy MBSE in your organization with an introduction to systems and model-based systems engineering Use SysML to describe systems with this general overview and a detailed description of the Systems Modeling Language Review practical examples of MBSE methodologies to understand their application to specifying and designing a system Includes comprehensive modeling notation tables as an appendix that can be used as a standalone reference

Instructional-design Theories and Models: A new paradigm of instructional theory

Psychology Press Instructional theory describes a variety of methods of instruction (different ways of facilitating human learning and development) and when to use--and not use--each of those methods. It is about how to help people learn better. This volume provides a concise summary of a broad sampling of new methods of instruction currently under development, helps show the interrelationships among these diverse theories, and highlights current issues and trends in instructional design. It is a sequel to Instructional-Design Theories and Models: An Overview of Their Current Status, which provided a "snapshot in time" of the status of instructional theory in the early 1980s. Dramatic changes in the nature of instructional theory have occurred since then, partly in response to advances in knowledge about the human brain and learning theory, partly due to shifts in educational philosophies and beliefs, and partly in response to advances in information technologies. These changes have made new methods of instruction not only possible, but also necessary in order to take advantage of new instructional capabilities offered by the new technologies. These changes are so dramatic that many argue they constitute a new paradigm of instruction, which requires a new paradigm of instructional theory. In short, there is a clear need for this Volume II of Instructional Design Theories and Models. To attain the broad sampling of methods and theories it presents, and to make this book more useful for practitioners as well as graduate students interested in education and training, this volume contains twice as many chapters, but each half as long as the ones in Volume I, and the descriptions are generally less technical. Several unique features are provided by the editor to help readers understand and compare the theories in this book: *Chapter 1, which discusses the characteristics of instructional theory and the nature of the new paradigm of instruction, helps the reader identify commonalities across the theories. *Chapter forewords, which summarize the major elements of the instructional-design theories, are useful for reviewing and comparing theories, as well as for previewing a theory to decide if it is of interest, and for developing a general schema that will make it easier to understand. *Editor's notes provide additional help in understanding and comparing the theories and the new paradigm of instruction to which they belong. *Units 2 and 4 have introductory chapters to help readers analyze and understand the theories in those units. This is an essential book for anyone interested in exploring new approaches to fostering human learning and development and thinking creatively about ways to best meet the needs of learners in all kinds of learning contexts. Readers are invited to use Dr. Charles Reigeluth's Web site to comment and to view others' comments about the instructional design theories in this book, as well as other theories. Point your browser to: www.indiana.edu/~idtheory

Pocket Guide to Gene Level Diagnostics in Clinical Practice

CRC Press Pocket Guide to Gene Level Diagnostics in Clinical Practice is an abbreviated, pocket-size, quick-reference guide that provides a point-by-point synopsis of the vast wealth of information contained in CRC Handbook of Gene Level Diagnostics in Clinical Practice. All sections and subsections in the Pocket Guide are cross-referenced to corresponding pages in the Handbook. The book works well on its own as a quick reference, but also can be used in conjunction with the larger Handbook for detailed coverage and references to specific information. Pocket Guide to Gene Level Diagnostics in Clinical Practice also includes extensive supplements featuring material not included in the Handbook. These are intended to provide an up-dated, practical source of information useful to anyone involved in molecular diagnostic research and/or service. Supplements are cross-referenced to the main text of the Pocket Guide, that complement and enhance the material covered. Pocket Guide to Gene Level Diagnostics in Clinical Practice will be a handy reference for

professionals and students in pathology, biotechnology, biology, and medicine.

The Practice of Enterprise Modeling

4th IFIP WG 8.1 Working Conference, PoEM 2011 Oslo, Norway, November 2-3, 2011 Proceedings

Springer Science & Business Media This volume constitutes the proceedings of the 4th IFIP WG 8.1 Working Conference on the Practice of Enterprise Modeling, held in Oslo, Norway, during November 2-3, 2011. The conference series is a dedicated forum where the use of enterprise modeling (EM) in practice is addressed by bringing together researchers, users, and practitioners in order to develop a better understanding of the practice of EM, to contribute to improved industrial EM applications, and to share knowledge and experiences. The 18 papers presented were carefully reviewed and selected from 38 submissions. Authored by both researchers and practitioners, they reflect the fact that EM encompasses human, organizational issues as well as technical aspects related to the development of information systems. The papers are organized in five thematic sessions on process modeling, business modeling, enterprise architecture, EM, and model-driven development. In addition, two keynotes on EM in an agile world and on intra- and inter-organizational process mining complete the volume.

A Practical Guide to Building Professional Competencies in School Psychology

Springer Science & Business Media Designed as a research-based yet matter-of-fact guide for beginning and future scientist-practitioners, *A Practical Guide to Building Professional Competencies in School Psychology* skillfully augments the reader's training, supervision, and experience by providing a framework for honing essential skills in the field. This reader-friendly, evidence-based text encourages the continuing development of expertise in communication and collaborative skills, diversity awareness, technical knowledge, and other domains critical to building and maintaining an ethical, meaningful practice. Each chapter in this must-have volume examines a core area of expertise in depth, and provides checklists (linked to competencies set out in NASP's Blueprint III) and the Development and Enhancement of Competencies Assessment Form are included to enable readers to gain a more complete understanding of their professional strengths and needs. The skill sets covered include: Developing cross-cultural competencies. Evaluating students with emotional and behavioral problems. Assessing student skills using a variety of approaches. Preventing and intervening in crisis situations. Consulting with families, colleagues, and the community. Facilitating mental health services in the school setting. *A Practical Guide to Building Professional Competencies in School Psychology* provides an invaluable set of professional development tools for new practitioners and graduate students in school psychology.

The kinder-garten: principles of Fröbel's system. Also, Remarks on the higher education of women

Using Occupational Therapy Models in Practice

A Fieldguide

Elsevier Health Sciences This book is a succinct and practical guide for students and practitioners applying occupational therapy models in the field. It provides an overview of the common models in practice and bridges the gap between theoretical texts on conceptual models and the immediate demands of practice. It describes occupational therapists' use of

models within the realities of practice in a variety of contexts and takes the approach that practice models can be used as tools to guide clinical reasoning. Provides an in-depth overview of 9 different models which can easily be compared and contrasted Highlights the vital relationship between clinical reasoning and the practical use of models Includes tools such as clinical reasoning memory aids, diagrams and major references Presents models in the context of their culturally and historically situated development Written by internationally renowned occupational therapists who are well experienced in applying models to practice

Models and Frameworks for Implementing Evidence-Based Practice

Linking Evidence to Action

John Wiley & Sons The Evidence-Based Nursing Series is co-published with Sigma Theta Tau International (STTI). The series focuses on implementing evidence-based practice in nursing and mirrors the remit of Worldviews on Evidence-Based Nursing, encompassing clinical practice, administration, research and public policy. Models and Frameworks for Implementing Evidence- Based Practice: Linking Evidence to Action looks at ways of implementing evidence gained through research and factors that influence successful implementation. It acknowledges the gap that exists between obtaining evidence and the practicalities of putting it into practice and provides direction to help to close this gap. This, the first book in the series, helps the reader to make decisions about the appropriateness of using various models and frameworks. A selection of models and frameworks are examined in detail including examples of their use in practice. The book concludes with an analysis and synthesis of the included models and frameworks. The models and frameworks that have been included are based on a number of criteria: that they are internationally recognised, have undergone widespread evaluation and testing, are transferable across different settings, and can be used by different disciplines. Models and frameworks include: Stetler Model Ottawa Model of Research Use IOWA model of evidence-based practice Advancing Research and Clinical Practice through Close Collaboration (ARCC) model Dobbins' dissemination and use of research evidence for policy and practice framework Joanna Briggs Institute model Knowledge to Action framework Promoting Action on Research Implementation in Health Services (PARIHS) Key Points: Includes an overview of implementation issues and the use of theory and frameworks in implementing evidence into practice Chapters are written by the developers of the model or framework Each chapter provides background on an implementation model or framework, suitable applications, underlying theory and examples of use Each chapter examines strengths and weaknesses of each model alongside barriers and facilitators for its implementation

Automating Business Modelling

A Guide to Using Logic to Represent Informal Methods and Support Reasoning

Springer Science & Business Media Enhances the use of enterprise models as an effective communication medium between business and technical personnel. Details the blue-print of the to-be developed business system.

Psychosocial Conceptual Practice Models in Occupational Therapy

Building Adaptive Capability

Elsevier Health Sciences This book examines the occupational therapy paradigm (its focal viewpoint, core constructs, and values) as well as the role of complexity/chaos theory as a scientific framework for occupational therapy research and practice. Unlike other current OT texts, this book uses clinical case examples to illustrate application of proposed changes to make procedures consistent with the latest Occupational Therapy Practice Framework. The reader walks away with a clear grasp of the theoretical principles guiding his or her treatment interventions, the explanations behind those principles, and the applicable intervention for said techniques and procedures. An emphasis on clinical-reasoning skills, including information on different types of reasoning skills as well as the MAPP model of teaching helps the student and clinician translate theoretical principles into practice.

The section on specific interventions addresses each of the conceptual practice models according to a consistent chapter template, which enables the reader to apply conceptual practice models in real-world contexts. Preview questions at the beginning of each chapter alert the reader to important concepts in the upcoming text. Critical analysis of the theoretical core provides suggested modifications to increase consistency with the new occupational therapy paradigm.

The Practice of Enterprise Modeling

Springer Nature

A Practical Guide To Cancer Systems Biology

World Scientific Systems biology combines computational and experimental approaches to analyze complex biological systems and focuses on understanding functional activities from a systems-wide perspective. It provides an iterative process of experimental measurements, data analysis, and computational simulation to model biological behavior. This book provides explained protocols for high-throughput experiments and computational analysis procedures central to cancer systems biology research and education. Readers will learn how to generate and analyze high-throughput data, therapeutic target protein structure modeling and docking simulation for drug discovery. This is the first practical guide for students and scientists who wish to become systems biologists or utilize the approach for cancer research. Contents: Introduction to Cancer Systems Biology (Hsueh-Fen Juan and Hsuan-Cheng Huang) Transcriptome Analysis: Library Construction (Hsin-Yi Chang and Hsueh-Fen Juan) Quantitative Proteome: The Isobaric Tags for Relative and Absolute Quantitation (iTRAQ) (Yi-Hsuan Wu and Hsueh-Fen Juan) Phosphoproteome: Sample Preparation (Chia-Wei Hu and Hsueh-Fen Juan) Transcriptomic Data Analysis: RNA-Seq Analysis Using Galaxy (Chia-Lang Hsu and Chantal Hoi Yin Cheung) Proteomic Data Analysis: Functional Enrichment (Hsin-Yi Chang and Hsueh-Fen Juan) Phosphorylation Data Analysis (Chia-Lang Hsu and Wei-Hsuan Wang) Pathway and Network Analysis (Chen-Tsung Huang and Hsueh-Fen Juan) Dynamic Modeling (Yu-Chao Wang) Protein Structure Modeling (Chia-Hsien Lee and Hsueh-Fen Juan) Docking Simulation (Chia-Hsien Lee and Hsueh-Fen Juan) Readership: Graduate students and researchers entering the cancer systems biology field. Keywords: Systems Biology; Transcriptomics; Proteomics; Network Biology; Dynamic Modeling; Protein Structure Modeling; Docking Simulation; Bioinformatics Review: Key Features: Written by two active researchers in the field Covers both experimental and computational areas in cancer systems biology Step-by-step instructions help beginners who are interested in creating biological data and analyzing the data by themselves Readers will gain the skills to generate and analyze omics data and discover potential therapeutic targets and drug candidates

Psycho-Oncology

Oxford University Press, USA Originally published by Oxford in 1998, Psycho-Oncology was the first comprehensive text in the field and remains the gold standard today. Edited by a team of leading experts in psycho-oncology, spearheaded by Dr. Jimmie C. Holland, the founder of the field, the text reflects the interdisciplinary nature and global reach of this growing field. Thoroughly updated and developed in collaboration with the American Psychosocial Society and the International Psycho-oncology Society, the third edition is a current, comprehensive reference for psychiatrists, psychologists, oncologists, hospice workers, and social workers seeking to understand and manage the psychological issues involved in the care of persons with cancer and the psychological, social, and behavioral factors that contribute to cancer risk and survival. New to this edition are chapters on gender-based and geriatric issues and expanded coverage of underserved populations, community based programs, and caregiver training and education.

System Dynamics

Modeling, Simulation and Analysis: Practical Guide with Examples for the Design of

Industrial, Economic, Biological, Engineering and Environmental Models.

This book allows the reader to acquire step-by-step in a time-efficient and uncomplicated the knowledge in the formation and construction of dynamic models using Vensim. Many times, the models are performed with minimal current data and very few historical data, the simulation models that the student will design in this course accommodate these analyses, with the construction of realistic hypotheses and elaborate behavior models. That's done with the help of software Vensim that helps the construction of the models as well as performing model simulations. At the end of the book, the reader is able to: - Describe the components of a complex system. - Diagnose the natural evolution of the system under analysis. - Create a model of the system and present it using the simulation software. - Carry out simulations with the model, in order to predict the behavior of the system.

Content Environmental Area 1. Population Growth 2. Ecology of a Natural Reserve 3. Effects of the Intensive Farming 4. The Fishery of Shrimp 5. Rabbits and Foxes 6. A Study of Hogs 7. Ingestion of Toxins 8. The Barays of Angkor 9. The Golden Number Management Area 10. Production and Inventory 11. CO2 Emissions 12. How to Work More and Better 13. Faults 14. Project Dynamics 15. Innovatory Companies 16. Quality Control 17. The impact of a Business Plan Social Area 18. Filling a Glass 19. A Catastrophe Study 20. The Young Ambitious Worker 21. Development of an Epidemic 22. The Dynamics of Two Clocks Mechanical Area 23. The Tank 24. Study of the Oscillatory Movements 25. Design of a Chemical Reactor 26. The Butterfly Effect 27. The Mysterious Lamp Advanced Exercises (Vensim PLE PLUS) 28. Import data from an Excel file 29. Building Games and Learning Labs 30. Interactive models 31. Input Output Controls 32. Sensitivity Analysis Annex I. Guide to creating a model II. Functions, Tables and Delays III. Frequently Asked Questions FAQs IV. Download the models of this book The author Juan Martín García is teacher and a worldwide recognized expert in System Dynamics, with more than twenty years of experience in this field. Ph.D. Industrial Engineer (Spain) and Postgraduated Diploma in Business Dynamics at Massachusetts Institute of Technology MIT (USA). He teaches Vensim online courses in <http://vensim.com/vensim-online-courses/> based on System Dynamics.

Hamric & Hanson's Advanced Practice Nursing - E-Book

An Integrative Approach

Elsevier Health Sciences Edited and written by a "Who's Who" of internationally known thought leaders in advanced practice nursing, Hamric and Hanson's Advanced Practice Nursing: An Integrative Approach, 7th Edition provides a clear, comprehensive, and contemporary introduction to advanced practice nursing today, addressing all major APRN competencies, roles, and issues. Thoroughly revised and updated, the 7th edition of this bestselling text covers topics ranging from the evolution of advanced practice nursing to evidence-based practice, leadership, ethical decision-making, and health policy. Coverage of the full breadth of APRN core competencies defines and describes all competencies, including direct clinical practice, guidance and coaching, evidence-based practice, leadership, collaboration, and ethical practice. Operationalizes and applies the APRN core competencies to the major APRN roles: the Clinical Nurse Specialist, the Primary Care Nurse Practitioner, the Acute Care Nurse Practitioner (both adult-gerontology and pediatric), the Certified Nurse-Midwife, and the Certified Registered Nurse Anesthetist. Content on managing APRN environments addresses factors such as business planning and reimbursement; marketing, negotiating, and contracting; regulatory, legal, and credentialing requirements; health policy; and nursing outcomes and performance improvement research.

SysML Distilled

A Brief Guide to the Systems Modeling Language

Pearson Education The Systems Modeling Language (SysML) extends UML with powerful systems engineering capabilities for modeling a wider spectrum of systems and capturing all aspects of a system's design. SysML Distilled is the first clear, concise guide for everyone who wants to start creating effective SysML models. (Drawing on his pioneering experience at Lockheed Martin and NASA, Lenny Delligatti illuminates SysML's core components and provides practical advice to help you create good models and good designs. Delligatti begins with an easy-to-understand overview of Model-Based Systems Engineering (MBSE) and an explanation of how SysML enables effective system specification,

analysis, design, optimization, verification, and validation. Next, he shows how to use all nine types of SysML diagrams, even if you have no previous experience with modeling languages. A case study running through the text demonstrates the use of SysML in modeling a complex, real-world sociotechnical system. Modeled after Martin Fowler's classic UML Distilled, Delligatti's indispensable guide quickly teaches you what you need to know to get started and helps you deepen your knowledge incrementally as the need arises. Like SysML itself, the book is method independent and is designed to support whatever processes, procedures, and tools you already use. Coverage Includes Why SysML was created and the business case for using it Quickly putting SysML to practical use What to know before you start a SysML modeling project Essential concepts that apply to all SysML diagrams SysML diagram elements and relationships Diagramming block definitions, internal structures, use cases, activities, interactions, state machines, constraints, requirements, and packages Using allocations to define mappings among elements across a model SysML notation tables, version changes, and sources for more information

Professional Practice Models in Nursing

Successful Health System Implementation

Springer Publishing Company This is the first resource to demonstrate to nurse leaders, administrators, and staff how to develop, apply, and successfully integrate a professional practice model into a health system. It delivers best practices for creating, implementing, evaluating, adapting, adopting, and revising professional practice models that contribute to improving patient outcomes. Consolidating a wealth of information in one place, the text describes a coordinated and consistent approach that generates an in-depth understanding of professional practice models including their implementation and evaluation. Distinguished by its focus on the "how to" of successful enculturation—a common obstacle for many nursing professionals—the text guides nurse leaders and educators in the process of integrating professional practice models into clinical workflow, advancing nursing practice, improving the quality of patient care, and facilitating Magnet® designation. Specific methods and implementation strategies are delineated along with tipping points and milestones. Real-life examples offer relevant lessons from others who have encountered problems and created successful solutions along the way. They describe approaches, resolutions to problems, unique insights, and meaningful revisions. Opportunities for reflection and case analysis are presented and chapters—each with comprehensive, concise, evidence-based content—include learning objectives, key summary points, reflective exercises, illustrations, charts, and "learning from the field" insets. Key Features: Encompasses essential information for developing, applying, and diffusing a professional practice model Provides comprehensive, concise, and evidence-based content Written by a renowned nurse leader, educator, and researcher with expertise in the enculturation of professional practice models Addresses one of the criteria necessary for Magnet® designation Includes a strong disciplinary perspective with a focus on professionalism and demonstrating value

Agent-Based Modeling and Simulation I

Practical guide to the analysis of complex systems

Juan Martín García An Agent Based Model (ABM) allows simulating the actions and interactions of many agents or entities in order to evaluate their impact on the system as a whole. These models are used in areas such as industry, business, biology, ecology, and the social sciences. CONTRIBUTIONS - IMMEDIATE RESULTS. From the first pages the reader is already able to create a model. - FREE SOFTWARE. The use of specific and free software for personal and educational use. - WITHOUT PRIOR TRAINING. Knowing how to program in Java, C ++, Python, Anylogic, etc. is not required. - GUIDE. A neat guide that explains each step in detail, for quick learning. - MODELS. The explanation of 40 didactic models, created to learn progressively. - FIGURES. The support of more than 1000 figures to advance clearly in each stage. - VIDEOS. The models described, together with various help videos, can be downloaded. - PRACTICAL. A practical approach allows the reader to see the possible applications to their environment. - EXPERIENCE. The teaching experience of the author and the reviewers has allowed the text to be refined to the maximum. AUTHOR AND REVIEWERS Juan Martín García is a Doctor of Industrial Engineering in Business Organization from the UPC (Spain) and a Diploma from the Sloan School of Management at MIT (USA). He has more than 30 years of experience as a consultant for companies and public organizations using simulation models based on System Dynamics. Professor at several Spanish and Latin American universities, he teaches online courses at Vensim <https://vensim.com/vensim-online-courses/> (in English) and System Dynamics at ATC-Innova <http://atc-innova.com/> (Spanish). He is the author of books and lectures on business, social and environmental applications of simulation models. - Dr. Francisco Campuzano Bolarín, Professor of Business Organization at the Polytechnic University of Cartagena

(UPCT). - Lening Mora, M.S Environmental & Occupational Health (San Diego, California) and Postgraduate Diploma in Healthcare Modeling and Simulation at Naval Postgraduate School (Monterey, California USA). - Professor Gavin Melles, PhD, MSc Swinburne University (Victoria, Australia). INDEX Presentation software Installation Working screen A model in 1 minute Concepts Functions and tables Variables Model: Traffic light Model: Paris Rome Attributes Model: Rio Bravo 2 Model: Truck Fleet Collections and aggregates Model: Dragons and Castles Model: Parents and children Model: The Four Pirates References Model: White and Black Model: White and Black 2 Model: White and Black 3 Comments Tools Entities initial parameters Model: Horse Racing Temporal parameters Model: Satellite Launch External data entities Import initial data Import time series data Model: My three rabbits Exercises Model: Rabbit Population Model: Rabbit Population 2 Model: Rabbit Population 3 Model: Rabbit population 4 Model: Rabbit population 5 Model: Sweet candies Model: Cheese shop Model: Cheese Shop 2 Model: Formula 1 drivers Model: Patients and hospitals Model: Horse breeding Model: Horse breeding 2 Model: Horse breeding 3 Model: Horse breeding 4 Model: Horse breeding 5 Model: Horse breeding 6 Model: Horse breeding 7 Model: Fighter aircraft Model: Fighter Aircraft 2 Model: Fishing in three seas Model: Fishing in three seas 2 Model: Fishing in three seas 3 Model: Fishing in three seas 4 Model: Fishing in three seas 5 Model: Fishing in three seas 6 Model: Gold Market Model: Gold Market 2 Model: Gold Market 3 Model: Gold Market 4 Model: Eco Restaurant Model: Beer Game

Use Case Driven Object Modeling with UML Theory and Practice

Theory and Practice

Apress Diagramming and process are important topics in today's software development world, as the UML diagramming language has come to be almost universally accepted. Yet process is necessary; by themselves, diagrams are of little use. Use Case Driven Object Modeling with UML - Theory and Practice combines the notation of UML with a lightweight but effective process - the ICONIX process - for designing and developing software systems. ICONIX has developed a growing following over the years. Sitting between the free-for-all of Extreme Programming and overly rigid processes such as RUP, ICONIX offers just enough structure to be successful.

Nursing Models for Practice

Elsevier Health Sciences A new edition of this successful undergraduate nursing text relates theory to practice using an easily accessible and reader friendly style. Complex ideas are explained clearly, avoiding jargon. Learning objectives, Learning exercises and Study Questions make this a comprehensive learning resource. Every chapter has been updated Updated information on developing evidence-based practice This new edition focuses more directly on the student market, including learning objectives and other helpful study aids. New material on developing evidence-based practice A new chapter on the evaluation of contemporary practice against the social history of nursing

The Definitive Guide to HR Management Tools (Collection)

FT Press A brand new collection of high-value HR techniques, skills, strategies, and metrics... now in a convenient e-format, at a great price! HR management for a new generation: 6 breakthrough eBooks help you help your people deliver more value on every metric that matters This unique 6 eBook package presents all the tools you need to tightly link HR strategy with business goals, systematically optimize the value of all your HR investments, and take your seat at the table where enterprise decisions are made. In The Definitive Guide to HR Communication: Engaging Employees in Benefits, Pay, and Performance, Alison Davis and Jane Shannon help you improve the effectiveness of every HR message you deliver. Learn how to treat employees as customers... clarify their needs and motivations ... leverage the same strategies and tools your company uses to sell products and services... package information for faster, better decision-making... clearly explain benefits, pay, and policies... improve recruiting, orientation, outplacement, and much more. In Investing in People, Second Edition, Wayne Cascio and John W. Boudreau help you use metrics to improve HR decision-making, optimize organizational effectiveness, and increase the value of strategic investments. You'll master powerful solutions for integrating HR with enterprise strategy and budgeting -- and for gaining commitment from business leaders outside HR. In Financial Analysis for HR Managers, Dr. Steven Director teaches the financial analysis skills you need to become a true strategic business partner, and get boardroom and CFO buy-in for your high-priority initiatives. Director covers everything HR pros need to formulate, model, and evaluate HR initiatives from a financial perspective. He walks through crucial financial issues associated with strategic talent management, offering cost-benefit analyses of HR and strategic financial initiatives, and even addressing issues related to total rewards programs. In Applying Advanced Analytics to HR Management Decisions , pioneering HR technology expert James C. Sesil shows how to use advanced

analytics and "Big Data" to optimize decisions about performance management, strategy alignment, collaboration, workforce/succession planning, talent acquisition, career development, corporate learning, and more. You'll learn how to integrate business intelligence, ERP, Strategy Maps, Talent Management Suites, and advanced analytics -- and use them together to make far more robust choices. In *Compensation and Benefit Design*, world-renowned compensation expert Bashker D. Biswas helps you bring financial rigor to compensation and benefit program development. He introduces a powerful Human Resource Life Cycle Model for considering compensation and benefit programs... fully addresses issues related to acquisition, general compensation, equity compensation, and pension accounting... assesses the full financial impact of executive compensation and employee benefit programs... and discusses the unique issues associated with international HR programs. Finally, in *People Analytics*, Ben Waber helps you discover powerful hidden social "levers" and networks within your company, and tweak them to dramatically improve business performance and employee fulfillment. Drawing on his cutting-edge work at MIT and Harvard, Waber shows how sensors and analytics can give you an unprecedented understanding of how your people work and collaborate, and actionable insights for building a more effective, productive, and positive organization. Whatever your HR role, these 6 eBooks will help you apply today's most advanced innovations and best practices to optimize workplace performance -- and drive unprecedented business value. From world-renowned human resources experts Alison Davis, Jane Shannon, Wayne Cascio, John W. Boudreau, Steven Director, James C. Sesil, Bashker D. Biswas, and Ben Waber .

Systems Architecture Modeling with the Arcadia Method

A Practical Guide to Capella

Elsevier This book is an illustrative guide for the understanding and implementation of model-based systems and architecture engineering with the Arcadia method, using Capella, a new open-source solution. More than just another systems modeling tool, Capella is a comprehensive and extensible Eclipse application that has been successfully deployed in a wide variety of industrial contexts. Based on a graphical modeling workbench, it provides systems architects with rich methodological guidance using the Arcadia method and modeling language. Intuitive model editing and advanced viewing capabilities improve modeling quality and productivity, and help engineers focus on the design of the system and its architecture. This book is the first to help readers discover the richness of the Capella solution. Describes the toolset implementation of the Arcadia method Highlights the toolset widely deployed on operational projects in all Thales domains worldwide (defense, aerospace, transportation, etc.) Emphasizes the author's pedagogical experience on the methods and the tools gained through conducting more than 80 training sessions for a thousand engineers at Thales University Examines the emergence of an ecosystem of organizations, including industries that would drive the Capella roadmap according to operational needs, service and technology suppliers who would develop their business around the solution, and academics who would pave the future of the engineering ecosystem