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**KEY=TECNOLOGIE - BARTLETT RIDDLE**

### Reliability and Statistics in Transportation and Communication

### Selected Papers from the 18th International Conference on Reliability and Statistics in Transportation and Communication, RelStat'18, 17-20 October 2018, Riga, Latvia

**Springer** This book reports on cutting-edge theories and methods for analyzing complex systems, such as transportation and communication networks and discusses multi-disciplinary approaches to dependability problems encountered when dealing with complex systems in practice. The book presents the most noteworthy methods and results discussed at the International Conference on Reliability and Statistics in Transportation and Communication (RelStat), which took place in Riga, Latvia on October 17 - 20, 2018. It spans a broad spectrum of topics, from mathematical models and design methodologies, to software engineering, data security and financial issues, as well as practical problems in technical systems, such as transportation and telecommunications, and in engineering education.

### Foundations of Probabilistic Programming

**Cambridge University Press** This book provides an overview of the theoretical underpinnings of modern probabilistic programming and presents applications in e.g., machine learning, security, and approximate computing. Comprehensive survey chapters make the material accessible to graduate students and non-experts. This title is also available as Open Access on Cambridge Core.

### Smart Learning with Educational Robotics

### Using Robots to Scaffold Learning Outcomes

**Springer** This book will offer ideas on how robots can be used as teachers' assistants to scaffold learning outcomes, where the robot is a learning agent in self-directed learning who can contribute to the development of key competences for today's world through targeted learning - such as engineering thinking, math, physics, computational thinking, etc. starting from pre-school and continuing to a higher education level. Robotization is speeding up at the moment in a variety of dimensions, both through the automation of work, by performing intellectual duties, and by providing support for people in everyday situations. There is increasing political attention, especially in Europe, on educational systems not being able to keep up with such emerging technologies, and efforts to rectify this. This edited volume responds to this attention, and seeks to explore which pedagogical and educational concepts should be included in the learning process so that the use of robots is meaningful from the point of view of knowledge construction, and so that it is safe from the technological and cybersecurity perspective.

### On Fuzziness

### A Homage to Lotfi A. Zadeh - Volume 1

**Springer** The notion of Fuzziness stands as one of the really new concepts that have recently enriched the world of Science. Science grows not only through technical and formal advances on one side and useful applications on the other side, but also as consequence of the introduction and assimilation of new concepts in its corpus. These, in turn, produce new developments and applications. And this is what Fuzziness, one of the few new concepts arisen in the XX Century, has been doing so far. This book aims at paying homage to Professor Lotfi A. Zadeh, the "father of fuzzy logic" and also at giving credit to his exceptional work and personality. In a way, this is reflected in the variety of contributions collected in the book. In some of them the authors chose to speak of personal meetings with Lotfi; in others, they discussed how certain papers of Zadeh were able to open for them a new research horizon. Some contributions documented results obtained from the author/s after taking inspiration from a particular idea of Zadeh, thus implicitly acknowledging him. Finally, there are contributions of several "third generation fuzzysists or softies" who were firstly led into the world of Fuzziness by a disciple of Lotfi Zadeh, who, following his example, took care of opening for them a new road in science. Rudolf Seising is Adjoint Researcher at the European Centre for Soft Computing in Mieres, Asturias (Spain). Enric Trillas and Claudio Moraga are Emeritus Researchers at the European Centre for Soft Computing, Mieres, Asturias (Spain). Settimo Termini is Professor of Theoretical Computer Science at the University of Palermo, Italy and Affiliated Researcher at the European Centre for Soft Computing, Mieres, Asturias (Spain)

### Network-Centric Collaboration and Supporting Frameworks

### IFIP TC 5 WG 5.5, Seventh IFIP Working Conference on Virtual Enterprises, 25-27 September 2006, Helsinki, Finland

**Springer Science & Business Media** Collaborative Networks is a fast developing area, as shown by the already large number of diverse real-world implemented cases and the dynamism of its related involved research community. Being recognized as the most focused scientific and technical conference on Collaborative Networks, PRO-VE continues to offer the opportunity for presentation and discussion of both the latest research developments as well as the practical application case studies.

### Textiles and Clothing

### Environmental Concerns and Solutions

**John Wiley & Sons** Greater emphasis needs to be placed on research into eco-friendly processes particularly suited for the textile industry. With this goal in mind, all environmental aspects relating to the textile and clothing industry are discussed in this book. Included in the 11 informative chapters herein are topics covering the correlation between the environment and the processing and utilization of textiles and clothing. Chapter 1 discusses the direct impact that the textile industry has on the environment. The hazardous environmental consequences that synthetic dyes used to color textiles have on the environment are highlighted in Chapter 2. Greener alternatives to dyeing are discussed in Chapters 3 through 5, and eco-friendly ways of finishing textiles are discussed in Chapters 6 and 7. Finally, solutions to address the environmental hazards associated with the textile industry are presented in Chapters 8 through 11.

### Advances in the Biomechanics of the Hand and Wrist

**Springer Science & Business Media** William P. Cooney III, R. A. Berger, and K. N. An Orthopedic Biomechanics Laboratory Department of Orthopedic Surgery Mayo Clinic and Mayo Foundation Rochester, MN 55905, U. S. A. As surgeons struggle to find new insights into the complex diseases and deformities that involve the wrist and hand, new insights are being provided by applied anatomy, physiology and biomechanics to these important areas. Indeed, a fresh new interaction of disciplines has immersed in which anatomists, bioengineers and surgeons examine together basic functions and principles that can provide a strong foundation for future growth. Clinical interest in the hand and wrist are now at a peak on an international level. Economic implications of disability affecting the hand and wrist are recognized that have international scope crossing oceans, cultures, languages

and political philosophies. As with any struggle, a common ground for understanding is essential. NATO conferences such as this symposium on Biomechanics of the Hand and Wrist provides such a basis upon which to build discernment of fundamental postulates. As a start, basic research directed at studies of anatomy, pathology and pathophysiology and mechanical modeling is essential. To take these important steps further forward, funding from government and industry are needed to consider fundamental principles within the material sciences, biomechanical disciplines, applied anatomy and physiology and concepts of engineering modeling that have been applied to other areas of the musculoskeletal system.

## Overview of Information Literacy Resources Worldwide

UNESCO "A bibliography of print and online materials available in Albanian, Amharic, Arabic, Bengali, Bosnian, Bulgarian, Chinese, Croatian, Czech, Dutch, English, Estonian, Filipino, Finnish, French, German, Greek, Hindi, Hungarian, Icelandic, Indonesian, Italian, Japanese, Korean, Laotian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Shona, Slovak, Spanish, Swedish, Thai, Turkish, Turkmen, Uzbek, and Vietnamese concerning information literacy."--Résumé de la notice dérivée.

## Electric and Magnetic Fields

## Enterprise Information Systems

## 18th International Conference, ICEIS 2016, Rome, Italy, April 25–28, 2016, Revised Selected Papers

Springer This book constitutes revised selected papers from the 18th International Conference on Enterprise Information Systems, ICEIS 2016, held in Rome, Italy, in April 2016. The 23 papers presented in this volume were carefully reviewed and selected from a total of 257 submissions to ICEIS 2016. The volume also contains one invited talk in full paper length. The papers selected to be included in this book contribute to the understanding of relevant trends of current research on enterprise information systems, including issues with regard to enterprise engineering, heterogeneous systems, security, software engineering, systems integration, business process management, human factors and affective computing, ubiquitous computing, social computing, knowledge management, and artificial intelligence.

## Colloquial Italian 2

## The Next Step in Language Learning

Routledge Do you know Italian already and want to go a stage further? If you're planning a visit to Italy, need to brush up your Italian for work, or are simply doing a course, Colloquial Italian 2 is the ideal way to refresh your knowledge of the language and to extend your skills. Colloquial Italian 2 is designed to help those involved in self-study; structured to give you the opportunity to listen to and read lots of modern, everyday Italian, it has also been developed to work systematically on reinforcing and extending your grasp of Italian grammar and vocabulary. Key features of Colloquial Italian 2 include: Revision material to help consolidate and build up your basics A wide range of contemporary authentic documents, both written and audio Lots of spoken and written exercises in each unit Highlighted key structures and phrases, a Grammar reference and detailed answer keys A broad range of situations, focusing on day to day life in Italy. Audio material to accompany the course is available to download free in MP3 format from [www.routledge.com/cw/colloquials](http://www.routledge.com/cw/colloquials). Recorded by native speakers, the audio material features the dialogues and texts from the book and will help develop your listening and pronunciation skills.

## History of Architectural Conservation

Routledge A History of Architectural Conservation expands knowledge about the conservation of ancient monuments, works of art and historic buildings. It includes the origins of the interest in conservation within the European context, and the development of the concepts from Antiquity and the Renaissance to the present day. Jokilehto illustrates how this development has influenced international collaboration in the protection and conservation of cultural heritage, and how it has formed the principal concepts and approach to conservation and restoration in today's multi-cultural society. This book is based on archival research of original documents and the study of key restoration examples in countries that have influenced the international conservation movement. Accessible and of great interest to students and the general public it includes conservation trends in Europe, the USA, India, Iran and Japan.

## The Years of Alienation in Italy

## Factory and Asylum Between the Economic Miracle and the Years of Lead

Springer The Years of Alienation in Italy offers an interdisciplinary overview of the socio-political, psychological, philosophical, and cultural meanings that the notion of alienation took on in Italy between the 1960s and the 1970s. It addresses alienation as a social condition of estrangement caused by the capitalist system, a pathological state of the mind and an ontological condition of subjectivity. Contributors to the edited volume explore the pervasive influence this multifarious concept had on literature, cinema, architecture, and photography in Italy. The collection also theoretically reassesses the notion of alienation from a novel perspective, employing Italy as a paradigmatic case study in its pioneering role in the revolution of mental health care and factory work during these two decades.

## Biomechanics of the Hand

## A Basic Research Study

World Scientific This book contains selected works on the biomechanics of the hand accumulated in the Biomechanics Laboratory of Mayo Clinic over the past eleven years. It attempts to apply a composite approach to normal and pathological functions of the hand by utilizing mechanical modeling, anatomical testing and clinical verification. A collaborative effort of the disciplines of orthopedics and engineering science has been put forward in this research. Attention is focused on the understanding of the function of the hand in relation to force and motion potentials observed in normal and pathological cases.

## Biodiversity in Enclosed Seas and Artificial Marine Habitats

## Proceedings of the 39th European Marine Biology Symposium, held in Genoa, Italy, 21-24 July 2004

Springer Science & Business Media The main themes of the Symposium were biodiversity in enclosed and semi-enclosed seas and artificial habitats, and the restoration of degraded systems. These themes are highly relevant today. The papers dealing with the first theme represent current research and concerns about marine biodiversity in enclosed seas. The papers in the second theme represent a synthesis of up-to-date knowledge on artificial habitats.

## Beyond Illustration

## 2d and 3d Digital Technologies as Tools for Discovery in Archaeology

British Archaeological Reports Limited This volume contains thirteen papers which demonstrate the usefulness of 2D and 3D digital modelling in archaeology, which as the title states goes well beyond simply producing illustrative site maps, but can be used as a creative form of experimental archaeology.

## Makers at School, Educational Robotics and Innovative Learning Environments Research and Experiences from FabLearn Italy 2019, in the Italian Schools and Beyond

**Springer Nature** This open access book contains observations, outlines, and analyses of educational robotics methodologies and activities, and developments in the field of educational robotics emerging from the findings presented at FabLearn Italy 2019, the international conference that brought together researchers, teachers, educators and practitioners to discuss the principles of Making and educational robotics in formal, non-formal and informal education. The editors' analysis of these extended versions of papers presented at FabLearn Italy 2019 highlight the latest findings on learning models based on Making and educational robotics. The authors investigate how innovative educational tools and methodologies can support a novel, more effective and more inclusive learner-centered approach to education. The following key topics are the focus of discussion: Makerspaces and Fab Labs in schools, a maker approach to teaching and learning; laboratory teaching and the maker approach, models, methods and instruments; curricular and non-curricular robotics in formal, non-formal and informal education; social and assistive robotics in education; the effect of innovative spaces and learning environments on the innovation of teaching, good practices and pilot projects.

## Continuum Mechanics Through the Twentieth Century A Concise Historical Perspective

**Springer Science & Business Media** This overview of the development of continuum mechanics throughout the twentieth century is unique and ambitious. Utilizing a historical perspective, it combines an exposition on the technical progress made in the field and a marked interest in the role played by remarkable individuals and scientific schools and institutions on a rapidly evolving social background. It underlines the newly raised technical questions and their answers, and the ongoing reflections on the bases of continuum mechanics associated, or in competition, with other branches of the physical sciences, including thermodynamics. The emphasis is placed on the development of a more realistic modeling of deformable solids and the exploitation of new mathematical tools. The book presents a balanced appraisal of advances made in various parts of the world. The author contributes his technical expertise, personal recollections, and international experience to this general overview, which is very informative albeit concise.

## Perspectives on Earthquake Geotechnical Engineering In Honour of Prof. Kenji Ishihara

**Springer** This book offers a broad perspective on important topics in earthquake geotechnical engineering and gives specialists and those that are involved with research and application a more comprehensive understanding about the various topics. Consisting of eighteen chapters written by authors from the most seismic active regions of the world, such as USA, Japan, Canada, Chile, Italy, Greece, Portugal, Taiwan, and Turkey, the book reflects different views concerning how to assess and minimize earthquake damage. The authors, a prominent group of specialists in the field of earthquake geotechnical engineering, are the invited lecturers of the International Conference on Earthquake Geotechnical Engineering from Case History to Practice in the honour of Professor Kenji Ishihara held in Istanbul, Turkey during 17-19 June 2013.

## World Report 2000

**Human Rights Watch** Human rights watch world report 2001: events of 2000.

## Adaptive, tolerant and efficient composite structures

**Springer Science & Business Media** Composite structures are most efficient in performance and production cost when combined with smart materials making them adaptable to changing operational conditions. The specific production processes of composites offer the possibility to integrate more functions thus making the structure more valuable. Active functions can be realized by smart materials, e.g. morphing, active vibration control, active structure acoustic control or structure health monitoring. The foundation is a sound understanding of materials, design methods, design principles, production technologies and adaptronics. Along the complete process chain this disciplines together deliver advanced lightweight solutions for applications ranging from mechanical engineering to vehicles, airframe and finally space structures. This book provides the scientific foundations as well as inspiring new ideas for engineers working in the field of composite lightweight structures.

## Electro-Fenton Process

### New Trends and Scale-Up

**Springer** This volume discusses the theoretical fundamentals and potential applications of the original electro-Fenton (EF) process and its most innovative and promising versions, all of which are classified as electrochemical advanced oxidation processes. It consists of 15 chapters that review the latest advances and trends, material selection, reaction and reactor modeling and EF scale-up. It particularly focuses on the applications of EF process in the treatment of toxic and persistent organic pollutants in water and soil, showing highly efficient removal for both lab-scale and pre-pilot setups. Indeed, the EF technology is now mature enough to be brought to market, and this collection of contributions from leading experts in the field constitutes a timely milestone for scientists and engineers.

## Colloquial Italian

### The Complete Course for Beginners

**Routledge** Colloquial Italian: The Complete Course for Beginners has been carefully developed by an experienced teacher to provide a step-by-step course to Italian as it is written and spoken today. Combining a clear, practical and accessible style with a methodical and thorough treatment of the language, it equips learners with the essential skills needed to communicate confidently and effectively in Italian in a broad range of situations. No prior knowledge of the language is required. Colloquial Italian is exceptional; each unit presents a wealth of grammatical points that are reinforced with a wide range of exercises for regular practice. A full answer key, a grammar summary, bilingual glossaries and English translations of dialogues can be found at the back as well as useful vocabulary lists throughout. Key features include: A clear, user-friendly format designed to help learners progressively build up their speaking, listening, reading and writing skills Jargon-free, succinct and clearly structured explanations of grammar An extensive range of focused and dynamic supportive exercises Realistic and entertaining dialogues covering a broad variety of narrative situations Helpful cultural points An overview of the sounds of Italian Balanced, comprehensive and rewarding, Colloquial Italian is an indispensable resource both for independent learners and students taking courses in Italian. Audio material to accompany the course is available to download free in MP3 format from [www.routledge.com/cw/colloquials](http://www.routledge.com/cw/colloquials). Recorded by native speakers, the audio material features the dialogues and texts from the book and will help develop your listening and pronunciation skills.

## Comprehensive Treatise of Electrochemistry

### Electrodeics: Transport

**Springer Science & Business Media** It is now time for a comprehensive treatise to look at the whole field of electrochemistry. The present treatise was conceived in 1974, and the earliest invitations to authors for contributions were made in 1975. The completion of the early volumes has been delayed by various factors. There has been no attempt to make each article emphasize the most recent situation at the expense of an overall statement of the modern view. This treatise is not a collection of articles from Recent Advances in Electro chemistry or Modern Aspects of Electrochemistry. It is an attempt at making a mature statement about the present position in the vast area of what is best looked at as a new interdisciplinary field. Texas A & M University John O'M. Bockris University of Ottawa Brian E. Conway Case Western Reserve University Ernest B. Yeager Texas A & M University Ralph E. White Preface to VoluIJe 8 The past three decades have seen the rapid evolution of the transport aspects of electrochemical engineering into a formal part of electrochemistry as well as chemical engineering. With minor exceptions, however, this subject has not been systematically covered in any treatise or recent electrochemical text. The editors believe that the treatment in this volume will serve the function.

## Microwave De-embedding From Theory to Applications

**Academic Press** This groundbreaking book is the first to give an introduction to microwave de-embedding, showing how it is the cornerstone for waveform engineering. The authors of each chapter clearly explain the theoretical concepts, providing a foundation that supports linear and non-linear measurements, modelling and circuit design. Recent developments and future trends in the field are covered throughout, including successful strategies for low-noise and power amplifier design. This book is a must-have for those wishing to understand the full potential of the microwave de-embedding concept to achieve successful results in the areas of measurements, modelling, and design at high frequencies. With this book you will learn: The theoretical background of high-frequency de-embedding for measurements, modelling, and design Details on applying the de-embedding concept to the transistor's linear, non-linear, and noise behaviour The impact of de-embedding on low-noise and power amplifier design The recent advances and future trends in the field of high-frequency de-embedding Presents the theory and practice of microwave de-embedding, from the basic principles to recent advances and future trends Written by experts in the field, all of whom are leading researchers in the area Each chapter describes theoretical background and gives experimental results and practical applications Includes forewords by Giovanni Ghione and Stephen Maas

## Innovations, Technologies and Research in Education

**Cambridge Scholars Publishing** The book includes studies presented at the ATEE Spring Conference 2017 on emerging trends in the use of technology in educational processes, the use of robotics to facilitate the construction of knowledge, how to facilitate learning motivation, transformative learning, and innovative educational solutions. Chapters here are devoted to studies on the didactic aspects of technology usage, how to facilitate learning, and the social aspects affecting acquisition of education, among others. This volume serves as a basis for further discussions on the development of educational science, on topical research fields and practical challenges. It will be useful to scientists in the educational field who wish to get acquainted with the results of studies conducted in countries around the world on emerging educational issues. Moreover, teachers who need to implement into practice the newest scientific findings and opinions and future teachers who need to acquire new knowledge will also find this book useful.

## Bi- and multilingual universities: European perspectives and beyond Conference Proceedings Bolzano-Bozen, 20-22 September 2007

**University Press Bozen** This collection of the proceedings of the 3rd conference on bi- and multilingual universities, held at the Free University of Bozen-Bolzano from 20 to 22 September 2007, tries to give a state-of-the-art insight into theoretical and practical approaches towards implementing bi- and multilingual models and policies in higher education institutions in various parts of the world.

## Applications of Fibonacci Numbers

### Volume 7

**Springer Science & Business Media** Proceedings of 'The Seventh International Research Conference on Fibonacci Numbers and Their Applications', Technische Universität, Graz, Austria, July 15-19, 1996

## Progress in Industrial Mathematics at ECMI 2016

**Springer** This book addresses mathematics in a wide variety of applications, ranging from problems in electronics, energy and the environment, to mechanics and mechatronics. Using the classification system defined in the EU Framework Programme for Research and Innovation H2020, several of the topics covered belong to the challenge climate action, environment, resource efficiency and raw materials; and some to health, demographic change and wellbeing; while others belong to Europe in a changing world - inclusive, innovative and reflective societies. The 19th European Conference on Mathematics for Industry, ECMI2016, was held in Santiago de Compostela, Spain in June 2016. The proceedings of this conference include the plenary lectures, ECMI awards and special lectures, mini-symposia (including the description of each mini-symposium) and contributed talks. The ECMI conferences are organized by the European Consortium for Mathematics in Industry with the aim of promoting interaction between academy and industry, leading to innovation in both fields and providing unique opportunities to discuss the latest ideas, problems and methodologies, and contributing to the advancement of science and technology. They also encourage industrial sectors to propose challenging problems where mathematicians can provide insights and fresh perspectives. Lastly, the ECMI conferences are one of the main forums in which significant advances in industrial mathematics are presented, bringing together prominent figures from business, science and academia to promote the use of innovative mathematics in industry.

## Ecotoxicology of Explosives

**CRC Press** Managing sites contaminated with munitions constituents is an international challenge. Although the choice of approach and the use of Ecological Risk Assessment (ERA) tools may vary from country to country, the assurance of quality and the direction of ecotoxicological research are universally recognized as shared concerns. Drawing on a multidisciplinary

## Museums and Digital Culture

### New Perspectives and Research

**Springer** This book explores how digital culture is transforming museums in the 21st century. Offering a corpus of new evidence for readers to explore, the authors trace the digital evolution of the museum and that of their audiences, now fully immersed in digital life, from the Internet to home and work. In a world where life in code and digits has redefined human information behavior and dominates daily activity and communication, ubiquitous use of digital tools and technology is radically changing the social contexts and purposes of museum exhibitions and collections, the work of museum professionals and the expectations of visitors, real and virtual. Moving beyond their walls, with local and global communities, museums are evolving into highly dynamic, socially aware and relevant institutions as their connections to the global digital ecosystem are strengthened. As they adopt a visitor-centered model and design visitor experiences, their priorities shift to engage audiences, convey digital collections, and tell stories through exhibitions. This is all part of crafting a dynamic and innovative museum identity of the future, made whole by seamless integration with digital culture, digital thinking, aesthetics, seeing and hearing, where visitors are welcomed participants. The international and interdisciplinary chapter contributors include digital artists, academics, and museum professionals. In themed parts the chapters present varied evidence-based research and case studies on museum theory, philosophy, collections, exhibitions, libraries, digital art and digital future, to bring new insights and perspectives, designed to inspire readers. Enjoy the journey!

## ICAO States Today

### 75 Years of Progress Since Chicago

## THERMEC 2013

**Trans Tech Publications Ltd** Collection of selected, peer reviewed papers from THERMEC 2013, 8th International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS Processing, Fabrication, Properties, Applications, December 2-6, 2013, Las Vegas, USA. The 470 papers are grouped as follows: Chapter 1: Al Alloys, Chapter 2: Mg Alloys (Prof Karl U. Kainer Symposium), Chapter 3: Ti Alloys/ Aerospace Structural Metallic Materials, Chapter 4: Steels, Chapter 5: TMP Microalloyed Steels (Prof. A. J. DeArdo Symposium), Chapter 6: High & Ultra High Temperature Materials, Chapter 7: Bio Materials, Chapter 8: Advanced Protective Coatings/Surface Engineering, Chapter 9: Composites (MMC, CMC)/ Nanocomposites/ Synthetic & Foams, Chapter 10: Interfaces & Grain Boundaries, Chapter 11: Fuel Cells, Hydrogen Storage Technologies, Batteries, Supercapacitors & Thermoelectric Materials, Chapter 12: Friction Stir Processing/Welding, Chapter 13: Materials Under Extreme Conditions, Chapter 14: Metallic Glasses/ Bulk Metallic Amorphous Materials, Chapter 15: Nanomaterials for Structural & Energy Applications, Chapter 16: Neutron Scattering & X-Ray Studies of Advanced Materials, Chapter 17: Modelling & Simulation, Chapter 18: Materials Performance, Chapter 19: Smart/Intelligent Materials & Processes, Chapter 20: Texture of Materials (Prof. G. Gottstein Symposium), Chapter 21: Ultra-Fine Grained Materials (Prof. T. G. Langdon Symposium), Chapter 22: Welding & Joining of Advanced and Special Materials

## Fusion Neutronics

**Springer** This book provides a systematic and comprehensive introduction to fusion neutronics, covering all key topics from the fundamental theories and methodologies, as well as a wide range of fusion system designs and experiments. It is the first-ever book focusing on the subject of fusion neutronics research. Compared with other nuclear devices such as fission reactors and accelerators, fusion systems are normally characterized by their complex geometry and nuclear physics, which entail new challenges for neutronics such as complicated modeling, deep penetration, low simulation efficiency, multi-physics coupling, etc. The book focuses on the neutronic characteristics of fusion systems and introduces a series of theories and methodologies that were developed to address the challenges of fusion neutronics. Further, it introduces readers to the unique principles and procedures of neutronics design, experimental methodologies and methodologies for fusion systems. The book not only highlights the latest advances and trends in the field, but also draws on the experiences and skills collected in the author's more than 40 years of research. To make it more accessible and enhance its practical value, various representative examples are included to illustrate the application and efficiency of the methods, designs and experimental techniques discussed.

## Plasma Dynamics

**Oxford University Press on Demand** Plasma is the physical state in which most of the visible matter in the universe is found. The properties of plasma are so distinctive that it is often referred to as the fourth state of matter.; This book explains the fundamental concepts of plasma physics and provides an introduction to plasma particle dynamics, plasma waves, magnetohydrodynamics, plasma kinetic theory, two-fluid theory and non-linear plasma physics. Emphasis is placed on the underlying physical principles, rather than on mathematical considerations. The most advanced background knowledge required consists of Maxwell's equations and these are reviewed in the introduction.

## Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID).

**Bernan Assoc**

## Drug Discovery and Development, Volume 1

### Drug Discovery

**Wiley-Interscience** From first principles to real-world applications -- here is the first comprehensive guide to drug discovery and development Modern drug discovery and development require the collaborative efforts of specialists in a broadarray of scientific, technical, and business disciplines--from biochemistry to molecular biology, organic chemistry to medicinal chemistry, pharmacology to marketing. Yet surprisingly, until now, there were no authoritative references offering a complete, fully integrated picture of the process. The only comprehensive guide of its kind, this groundbreaking two-volume resource provides an overview of the entire sequence of operations involved in drug discovery and development--from initial conceptualization to commercialization to clinicians and medical practitioners. **Volume 1: Drug Discovery** describes all the steps in the discovery process, including conceptualizing a drug, creating a library of candidates for testing, screening candidates for in vitro and in vivo activity, conducting and analyzing the results of clinical trials, and modifying a drug as necessary. **Volume 2: Drug Development** delves into the nitty-gritty details of optimizing the synthetic route, drug manufacturing, outsourcing, and marketing--including drug coloring and delivery methods. Featuring contributions from a world-class team of experts, **Drug Discovery and Development: \* Features fascinating case studies, including the discovery and development of erythromycin analogs, Tagamet, and Ultiva (remifentanyl) \* Discusses the discovery of medications for bacterial infections, Parkinson's disease, psoriasis, peptic ulcers, atopic dermatitis, asthma, and cancer \* Includes chapters on combinatorial chemistry, molecular biology-based drug discovery, genomics, and chemogenomics** Drug Discovery and Development is an indispensable working resource for industrialchemists, biologists, biochemists, and executives who work in the pharmaceutical industry.