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Biofouling and Organic FoulingApplied Computer Science for GGOS ObservatoriesApplied Linear Analysis for Chemical EngineersCoercion and Violence in Mental Health SettingsIntensive Livestock Production in TransitionEducation for sustainable Development und didaktische Gestaltungsansätze in der BerufsbildungDesign Technology of System–Level EMC EngineeringCircularly Polarized Antenna TechnologyFlow Chemistry – FundamentalsDie Verfasstheit der WissensgesellschaftPolitik der NachhaltigkeitWilliams Obstetrics 26eHaan Maine Zindagi Jee Hai – Pablo Neruda Ki Atam KathaExtreme Value Theory Guillem Gilabert–Oriol Alexander N.J. Neidhardt Vemuri Balakotaiah Nutmeg Hallett Barbara Grabkowsky Frank Bünning Xiaobin Tang Ferenc Darvas Karl–Werner Brand F. Gary Cunningham Pablo Neruda Laurens de Haan

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since the inception of reverse osmosis and nanofiltration membranes in the seventies biological fouling also known as biofouling still remains as the key challenge to get solved so that membranes can run smoothly and without issues in desalination and water treatment plants biofouling occurs when certain bacteria attach to the reverse osmosis membranes and starts building a biofilm this is a key problem as if this quickly growing biofilm is not properly taken care of it can affect the mechanical integrity of the reverse osmosis membrane elements and damage them irreversibly organic fouling occurs when organic matter deposits into the membrane thus reducing its permeability both

phenomena are interconnected this book provides an understanding on why biological fouling occurs what variables affect its development and what can be done to mitigate its impact

this book combines elementary theory from computer science with real world challenges in global geodetic observation based on examples from the geodetic observatory wettzell germany it starts with a step by step introduction to developing stable and safe scientific software to run successful software projects the use of software toolboxes is another essential aspect that leads to the application of generative programming an example is a generative network middleware that simplifies communication one of the book's main focuses is on explaining a potential strategy involving autonomous production cells for space geodetic techniques the complete software design of a satellite laser ranging system is taken as an example such automated systems are then combined for global interaction using secure communication tunnels for remote access the network of radio telescopes is used as a reference combined observatories form coordinated multi agent systems and offer solutions for operational aspects of the global geodetic observing system ggos with regard to industry 4.0

this textbook gives a unified treatment of the solution of various linear equations that arise in science and engineering with examples it is based on a course taught by the first author for over thirty years some unique features include use of symbolic software for illustrating and enhancing the impact of physical parameter changes on solutions multi scale analysis of engineering problems with physical interpretation of time and length scales in terms of eigenvalues and eigenvectors eigenfunctions discussion of compartment models for various finite dimensional problems evaluation and illustration of functions of matrices and use of symbolic manipulation to solve multi component diffusion convection reaction problems illustration of the techniques and interpretation of solutions to several classical engineering problems emphasis on the connection between discrete matrix algebra and continuum physical interpretation of adjoint operator and adjoint systems use of complex analysis and algebra in the solution of practical engineering problems

this book aims to provide a state of the art overview of the contexts causes and treatments that relate to the reduction of coercion and the prevention of violence in mental health settings the objective of this new edition in open access is to integrate theoretical explanations empirical findings and practical solutions on the topic from many countries and diverse professional contexts a large proportion of the text is concerned with practical and applied guidance for practitioners and others based on a clear understanding of

conceptual and theoretical issues significantly enriched by the contributions of lived experience editors and co authors this edition brings authentic new perspectives that deepen its relevance and impact there is extensive use of case studies drawn from practice and the media to enliven the discussion the scope of the book is intended to go beyond a reductionist medical biological orientation on coercion and violence in mental health by integrating this within broader psychological and social frameworks it includes new relevant contributions from nursing psychology psychiatry and sociology the language of the book is clear and understandable to a broad audience whilst offering new knowledge for researchers and other specialists

areas of intensive livestock production are currently facing a significant transformation process in the context of climate change the planetary boundaries political conflicts and crises as well as a growing population sustainable effective and resilient agrifood systems need to be established to achieve this goal society politics the economy agriculture and science are equally challenged only with a holistic systemic and participatory strategy a transformation of the existing system can be achieved this book analyses the current transition processes as well as its drivers and barriers and gives examples for new integrated strategies concepts business models and developments for the livestock sector finally the book indicates fields of action for the establishment of sustainable livestock farming the book will appeal to stakeholders in science society economy policy agricultural industry stakeholders in veterinary practice and agriculture

this book introduces the state of the art research progress of system level emc including theories design technologies principles and applications in practice the engineering design simulation prediction analysis test stage control as well as effectiveness evaluation are discussed in detail with extensive project experiences making the book an essential reference for researchers and industrial engineers

the book presents basic and advanced concepts of circularly polarized antennas including design procedure and recent applications cross dipole antennas microstrip antennas helical antennas quadrifilar helix antennas frequency independent antennas horn antennas omnidirectional circularly polarized antennas and radial line array antennas are discussed with abundant examples the book is an essential reference for researchers and engineers

the fully up dated edition of the two volume work covers both the theoretical foundation as well as the practical aspects presenting the complete insight into driving a chemical reaction provides a deep understanding for new potential technologies updated overview on devices and new key concepts of experimental procedures vol 2 applications

the landmark text that has served generations of obstetrician gynecologists fully updated with the most current perspectives of the field a doody's core title for 2023 williams obstetrics has defined the discipline for generations of obstetrician gynecologists written by authors from the nationally renowned university of texas southwestern medical center and parkland hospital the new edition of this authoritative evidence based work maintains its trademark comprehensive coverage and applicability at the bedside while offering the most current information and insights the culmination of a century of clinical thought williams obstetrics 26th edition delivers expert coverage of obstetrical complications such as preterm labor pregnancy related hypertension infection and hemorrhage it additionally offers foundational content on reproductive anatomy physiology and prenatal care the authors have enhanced this edition with 1 000 full color illustrations plus an increased emphasis on the fast growing subspecialty of maternal fetal medicine no other text matches the long established scientific rigor and accessibility of williams obstetrics with its state of the art design and review of the newest advances and protocols this not be missed clinical companion brings positive outcomes within reach new and updated content includes increased focus on maternal fetal medicine greater coverage of hypertension and hemorrhage deeper insights into in utero complications expanded fetal t section includes cutting edge fetal imaging genetics prenatal diagnosis and fetal disorders and therapy basic science physiology of labor preterm labor updated with contemporaneous publications in the literature more obstetrical sonography figures eye catching illustrations including updated graphs sonograms mris photographs and photomicrographs

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extreme value theory offers a careful coherent exposition of the subject starting from the probabilistic and mathematical foundations and proceeding to the statistical theory the book covers both the classical one dimensional case as well as finite and infinite dimensional settings all the main topics at the heart of the subject are introduced in a systematic fashion so that in the final chapter even the most recent developments in the theory can be understood the treatment is geared toward applications the presentation concentrates on the probabilistic and statistical aspects of extreme values such as limiting results domains of attraction and development of estimators without emphasizing

related topics such as point processes empirical distribution functions and brownian motion an appendix on regular variation has been added since some required results in that area are not available in book form the usefulness of the statistical theory is shown by treating several case studies in detail the book is a thorough accessible self contained graduate level treatment of modern extreme value theory and some of its applications it is aimed at graduate students and researchers and requires only maturity in mathematics and statistics

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