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Theory of Gearing Stephen P. Radzevich 2018-05-15 Written by a leading expert, Theory of Gearing: Kinematics, Geometry, and Synthesis, Second Edition is intended for engineers and researchers in the field of gear design, gear production, gear inspection, and application of gears. It focuses on the scientific theory of gearing, in all its aspects, and its application to new gear types and designs.

Mathematical Aspects of Numerical Solution of Hyperbolic Systems A.G. Kulikovskii 2000-12-21 This important new book sets forth a comprehensive description of various mathematical aspects of problems originating in numerical solution of hyperbolic systems of partial differential equations. The authors present the material in the context of the important mechanical applications of such systems, including the Euler equations of gas dynamics, magnetohydrodynamics (MHD), shallow water, and solid dynamics equations. This treatment provides-for the first time in book form-a collection of recipes for applying higher-order non-oscillatory shock-capturing schemes to MHD modelling of physical phenomena. The authors also address a number of original "nonclassical" problems, such as shock wave propagation in rods and composite materials, ionization fronts in plasma, and electromagnetic shock waves in magnets. They show that if a small-scale, higher-order mathematical model results in oscillations of the discontinuity structure, the variety of admissible discontinuities can exhibit disperse behavior, including some with additional boundary conditions that do not follow from the hyperbolic conservation laws. Nonclassical problems are accompanied by a multiple nonuniqueness of solutions. The authors formulate several selection rules, which in some cases easily allow a correct, physically realizable choice. This work systematizes methods for overcoming the difficulties inherent in the solution of hyperbolic systems. Its unique focus on applications, both traditional and new, makes Mathematical Aspects of Numerical Solution of Hyperbolic Systems particularly valuable not only to those interested the development of numerical methods, but to physicists and engineers who strive to solve increasingly complicated nonlinear equations.

The Code of Federal Regulations of the United States of America 1965 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

Environmental Contaminants Tarun Gupta 2017-11-28 This book addresses the measurement of environmental contaminants in water, air, and soil. It also presents modifications of and improvements to existing control technologies for remediation of environmental contaminants. It covers improved designs of wastewater systems and innovations in designing newer membranes for water treatment. In addition, it includes two separate sections on the modelling and control of different existing and emerging pollutants. It covers major topics such as: pharmaceutical wastes, paper and pulp waste, poly aromatic hydrocarbons, mining dust, bioaerosols, endosulphan, biomass combustion, and landfill design aspects. It also features chapters on environmental exposure and modelling of aerosol deposition within human lungs. The content of this book will be of interest to researchers, professionals, and policymakers whose work involves environmental contaminants and related solutions.

Recent Trends in Information Reuse and Integration Tansel Özyer 2011-10-20 The present text aims at helping the reader to maximize the reuse of information. Topics covered include tools and services for

creating simple, rich, and reusable knowledge representations to explore strategies for integrating this knowledge into legacy systems. The reuse and integration are essential concepts that must be enforced to avoid duplicating the effort and reinventing the wheel each time in the same field. This problem is investigated from different perspectives. In organizations, high volumes of data from different sources form a big threat for filtering out the information for effective decision making. The reader will be informed of the most recent advances in information reuse and integration.

A Program for the Solution of a Class of Geometric-analogy Intelligence-test Questions Thomas G. Evans 1964 The novel organization of the program in terms of figure descriptions, which are analyzed to find transformation rules, and rule descriptions, which are analyzed to find 'common generalizations' of pairs of transformation rules, has implications for the design of problem-solving programs and for machine learning. These implications are discussed at some length and suggestions are made for work on pattern-recognition and learning techniques based on ideas developed in the course of the present investigation.

The Social Contract of the Firm Lorenzo Sacconi 2012-12-06 In order to survive as a social institution a firm needs a constitutional social contract, even though implicit, among its stakeholders. This social contract must exist if an institution is to be justified. The book focuses on two main issues: To find out the terms of the hypothetical agreement among the firm's stakeholders in an ex ante perspective and to understand the endogenous mechanism generating appropriate incentives that induce to comply with the social contract itself, as seen in the ex post perspective.

Scientific and Technical Aerospace Reports 1969

Legal Orderings and Economic Institutions Fabrizio Cafaggi 2007-05-10 This book addresses the lively interaction between the disciplines of law and economics. The traditional boundaries of these two disciplines have somehow inhibited a full understanding of the functioning of and the evolution of economic and legal systems. It has often been the case that these boundaries have had to be reshaped, and sometimes abolished, before either one of the two disciplines could successfully clarify the real life problems arising from the complex institutions of contemporary societies. The contributions to this volume encompass some of the core controversial issues in law and economics arising from interactions between legal orderings and economic institutions. They include: the nature of institutional and legislative change and the emergence of strong institutional complementarity in legal positions the relationship between private orderings and the role of the State in enforcing contracts and defining property rights the nature and dynamics of endogenous enforcement and the analysis of governance models and corporate ethics. Part of the renowned Siena Studies in Political Economy series, this book will be an essential read for postgraduates and researchers in the fields of law and economics, and the economics of institutions.

Computer Applications 1978

Recidivism in Obesity and Differential Characteristics Between Normal Weight, Currently Obese, and Formerly Obese Individuals Using Self- Help, Professional Weight Loss Treatment, Or No Treatment Camala Ann Riessinger 1990

Reactions in the Solid State Michael E. Brown 1980-01-01 The whole of Volume 22 is devoted to the kinetics and mechanisms of the decomposition and interaction of inorganic solids, extended to include metal

carboxylates. After an introductory chapter on the characteristic features of reactions in the solid phase, experimental methods of investigation of solid reactions and the measurement of reaction rates are reviewed in Chapter 2 and the theory of solid state kinetics in Chapter 3. The reactions of single substances, loosely grouped on the basis of a common anion since it is this constituent which most frequently undergoes breakdown, are discussed in Chapter 4, the sequence being effectively that of increasing anion complexity. Chapter 5 covers reactions between solids, and includes catalytic processes where one solid component remains unchanged, double compound formation and rate processes involving the interactions of more than three crystalline phases. The final chapter summarises the general conclusions drawn in the text of Chapter 2-5.

Business Research Methodology (With Cd) Srivastava 2011 Classic graduate-level introduction to theory of computability. Discusses general theory of computability, computable functions, operations on computable functions, Turing machines self-applied, unsolvable decision problems, applications of general theory, mathematical logic, Kleene hierarchy, more.

Models of Strategic Rationality Reinhard Selten 2013-03-09 The papers collected in this volume relate to game theory. They aim at the elaboration and discussion of basic concepts, at the analysis of specific applied models and at the evaluation of experimental evidence. A game is a mathematical model of a situation where several actors with different goals are engaged in strategic interaction. Game theory explores the nature and the consequences of rational behavior in games. With respect to several papers in this volume, it seems to be appropriate to comment on later developments. A list of some important references is given at the end of the introduction. References already included in the collected papers are not repeated here. In casual conversation colleagues sometimes observe that the author on the one hand goes to extremes in the elaboration of the consequences of Bayesian rationality and on the other hand strongly emphasizes the limited rationality of actual decision behavior. This seeming discrepancy is also expressed in the collection presented here. The author thinks that a sharp distinction should be made between normative and descriptive game theory. This position of "methodological dualism" has been expressed in a comment to Aumann's paper "What is game theory trying to accomplish?" (Aumann, 1985, Selten 1985) Normative game theory has the important task to explore the nature and the consequences of idealized full rationality in strategic interaction. This requires a thorough discussion of first principles. Empirical arguments are irrelevant here.

Wolf Ridge Corporation Mine Plan for a Nahcolite Solution Mine, Piceance Basin 1987

Fundamentals of Quality Control and Improvement Amitava Mitra 2016-05-02 A statistical approach to the principles of quality control and management Incorporating modern ideas, methods, and philosophies of quality management, *Fundamentals of Quality Control and Improvement, Fourth Edition* presents a quantitative approach to management-oriented techniques and enforces the integration of statistical concepts into quality assurance methods. Utilizing a sound theoretical foundation and illustrating procedural techniques through real-world examples, the timely new edition bridges the gap between statistical quality control and quality management. Promoting a unique approach, the book focuses on the use of experimental design concepts as well as the Taguchi method for creating product/process designs that successfully incorporate customer needs, improve lead time, and reduce costs. The Fourth Edition of *Fundamentals of Quality Control and Improvement* also includes: New topical coverage on risk-adjustment, capability indices, model building using regression, and survival analysis Updated examples and exercises that enhance the readers' understanding of the concepts Discussions on the integration of statistical concepts to decision making in the realm of quality assurance Additional concepts, tools, techniques, and issues in the field of health care and health care quality A unique display and analysis of customer satisfaction data through surveys with strategic implications on decision making, based on the degree of satisfaction and the degree of importance of survey items *Fundamentals of Quality Control and Improvement, Fourth Edition* is an ideal book for undergraduate and graduate-level courses in management, technology, and engineering. The book also serves as a valuable reference for practitioners and professionals interested in expanding their knowledge of statistical quality control, quality assurance, product/process design, total quality management, and/or Six Sigma training in quality improvement.

Social Choice Bernhardt Lieberman 1971

Experimental Studies of Interactive Decisions Amnon Rapoport 2012-12-06 This book is about the interplay of theory and experimentation on group decision making in economics. The theories that the book subjects to experimental testing mostly come from the theory of games. The decisions investigated in the book mostly concern economic interaction like strict competition, two-person bargaining, and coalition formation. The underlying philosophy of the articles collected in this book is consistent with the opinion of a growing number of economists and psychologists that economic issues cannot be understood fully just by thinking about them. Rather, the interplay between theory and experimentation is critical for the development of economics as an observational science (Smith, 1989). Reports of laboratory experiments in decision making and economics date back more than thirty years (e.g. • Allais, 1953; Davidson, Suppes, and Siegel, 1957; Flood, 1958; Friedman, Kalisch, Milnor, Nash, and Nering, 1954; Lieberman, Mosteller and Nogee, 1951; Rapoport, Chammah, Dwyer, and Gyr, Siegel and Fouraker, Stone, 1958). However, only in the last ten or fifteen years has laboratory experimentation in economics started its steady transformation from an occasional curiosity into a regular means for investigating various economic phenomena and examining the role of economic institutions. Groups of researchers in the USA and abroad have used experimental methods with increasing sophistication to attack economic problems that arise in individual decision making under risk, two-person bargaining.

Studying Designers'05

Geologic Characteristics of Sediment-and Volcanic-hosted Disseminated Gold Deposits--search for an Occurrence Model Edwin W. Tooker 1985

From Sources to Solution A.Z. Aris 2013-11-01 Featuring the theme, *From Sources to Solution*, this book is based on the research papers presented during the International Conference on Environmental Forensics 2013. It covers multi-disciplinary areas of environmental forensics featuring major themes: characterization, assessment, and monitoring; new approach, rapid assessment, and analytical techniques; pollution control technology; environmental health risk assessment; and policy, governance and management. It presents information for researchers from the science and social sciences disciplines and contribute to the advancement of Environmental Forensics. It also aims at evaluating the environmental damages as the result of indiscriminating discharge of toxic environmental pollutants.

Intelligent Perceptual Systems Vito Roberto 1993-11-10 Perceptual processes in humans and machines, investigated and simulated by means of the computational approach, are the subject matter of this volume. Researchers in artificial intelligence, pattern recognition, and psychology discuss aspects of vision, speech understanding, sensory-motor coordination, and their interplay with cognitive and behavioral functionalities. The papers adopt the computational approach as the basic research paradigm. Connectionist models, numerical and statistical techniques, symbolic (logic-based) formalisms, and hybrid representations provide the formal background to the research. Some of the papers were prepared for a workshop held in Trieste, Italy, in October 1992.

Federal Register 1953-12

Geographical Perspectives 1980

Current Topics in Cellular Regulation Bernard L. Horecker 2014-06-28 *Current Topics in Cellular Regulation, Volume 6* presents the fundamental mechanisms involved in the regulation of diverse cellular activities, including cellular differentiation, intermediary metabolism, and the transfer of genetic information. This book provides information pertinent to the various aspects of cellular regulation. Organized into eight chapters, this volume begins with an overview of the well-defined stages of sporulation that can be correlated with the appearance of several enzymes, ultrastructures, and chemical components associated with the developing spore. This text then examines the regulatory properties of G6PD from various sources, with emphasis to those cells in which these properties may operate in vivo in the control of carbohydrate metabolism. Other chapters consider the various methods for analyzing biochemical systems. The final chapter deals with kinetic cooperativity, which is the basis of the flip-flop mechanism. This book is a valuable resource for biochemists, biologists, and research workers.

The Philosopher's Stone for Sustainability Yoshiki Shimomura 2012-09-26 Industrial Product-Service Systems (IPSS), which is defined as "an integrated industrial product and service offering that delivers value in use," has expanded rapidly over the last decade. IPSS has allowed us to achieve both high added value

and high productivity and has enriched our QOL by improving the performance of products and services. We are now struggling with many awkward issues related to sustainability, but IPS2 is expected to be the “philosopher’s stone” for solving these issues. Following the pattern of conferences held in Cranfield in 2009, Linköping in 2010, and Braunschweig in 2011, the fourth International CIRP Conference on Industrial Product-Service Systems, held on November 8-9, 2012, in Tokyo, will cover various aspects of IPS2. Topics planned for this year’s conference reflect the latest IPS2 information in both the natural sciences and humanities and include case studies from various industries. IPS2 is still a relatively new field, so it is important to keep track of the entire context in order to promote more cross-sectional cooperation between multimodal fields and disciplines. The fourth International CIRP Conference on Industrial Product-Service Systems will serve as a vital platform for such collaborations and the discussion of new scientific ideas.

Human-Computer Interaction - INTERACT 2009 Tom Gross 2009-08-06 INTERACT 2009 was the 12th of a series of INTERACT international conferences supported by the IFIP Technical Committee 13 on Human-Computer Interaction. This year, INTERACT was held in Uppsala (Sweden), organized by the Swedish Interdisciplinary Interest Group for Human-Computer Interaction (STIMDI) in cooperation with the Department of Information Technology at Uppsala University. Like its predecessors, INTERACT 2009 highlighted, both to the academic and to the industrial world, the importance of the human-computer interaction (HCI) area and its most recent breakthroughs on current applications. Both experienced HCI researchers and professionals, as well as newcomers to the HCI field, interested in designing or evaluating interactive software, developing new interaction technologies, or investigating overarching theories of HCI, found in INTERACT 2009 a great forum for communication with people of similar interests, to encourage collaboration and to learn. INTERACT 2009 had Research and Practice as its special theme. The reason we selected this theme is that the research within the field has drifted away from the practical applicability of its results and that the HCI practice has come to disregard the knowledge and development within the academic community.

Partial Differential Equations Rustum Choksi 2022-04-04 While partial differential equations (PDEs) are fundamental in mathematics and throughout the sciences, most undergraduate students are only exposed to PDEs through the method of separation of variables. This text is written for undergraduate students from different cohorts with one sole purpose: to facilitate a proficiency in many core concepts in PDEs while enhancing the intuition and appreciation of the subject. For mathematics students this will in turn provide a solid foundation for graduate study. A recurring theme is the role of concentration as captured by Dirac's delta function. This both guides the student into the structure of the solution to the diffusion equation and PDEs involving the Laplacian and invites them to develop a cognizance for the theory of distributions. Both distributions and the Fourier transform are given full treatment. The book is rich with physical motivations and interpretations, and it takes special care to clearly explain all the technical mathematical arguments, often with pre-motivations and post-reflections. Through these arguments the reader will develop a deeper proficiency and understanding of advanced calculus. While the text is comprehensive, the material is divided into short sections, allowing particular issues/topics to be addressed in a concise fashion. Sections which are more fundamental to the text are highlighted, allowing the instructor several alternative learning paths. The author's unique pedagogical style also makes the text ideal for self-learning.

Fundamentals of Machine Learning for Predictive Data Analytics, second edition John D. Kelleher 2020-10-20 The second edition of a comprehensive introduction to machine learning approaches used in predictive data analytics, covering both theory and practice. Machine learning is often used to build predictive models by extracting patterns from large datasets. These models are used in predictive data analytics applications including price prediction, risk assessment, predicting customer behavior, and document classification. This introductory textbook offers a detailed and focused treatment of the most important machine learning approaches used in predictive data analytics, covering both theoretical concepts and practical applications. Technical and mathematical material is augmented with explanatory worked examples, and case studies illustrate the application of these models in the broader business context. This second edition covers recent developments in machine learning, especially in a new chapter on deep learning, and two new chapters that go beyond predictive analytics to cover unsupervised learning and reinforcement learning.

Code of Federal Regulations 1970 Special edition of the Federal Register, containing a codification of documents of general applicability and future effect ... with ancillaries.

Centennial Articles Robert D. Hatcher 1990-01-01

Sequence Analysis and Related Approaches Gilbert Ritschard 2018-10-17 This open access book provides innovative methods and original applications of sequence analysis (SA) and related methods for analysing longitudinal data describing life trajectories such as professional careers, family paths, the succession of health statuses, or the time use. The applications as well as the methodological contributions proposed in this book pay special attention to the combined use of SA and other methods for longitudinal data such as event history analysis, Markov modelling, and sequence network. The methodological contributions in this book include among others original propositions for measuring the precarity of work trajectories, Markov-based methods for clustering sequences, fuzzy and monothetic clustering of sequences, network-based SA, joint use of SA and hidden Markov models, and of SA and survival models. The applications cover the comparison of gendered occupational trajectories in Germany, the study of the changes in women market participation in Denmark, the study of typical day of dual-earner couples in Italy, of mobility patterns in Togo, of internet addiction in Switzerland, and of the quality of employment career after a first unemployment spell. As such this book provides a wealth of information for social scientists interested in quantitative life course analysis, and all those working in sociology, demography, economics, health, psychology, social policy, and statistics.

Snack Foods Processing Edmund W. Lusas 2001-06-05 Providing a clear, comprehensive overview of the industry, *Snack Foods Processing* is the definitive handbook on developing, preparing, and processing shelf-stable savory snack foods. Contributors from leading companies and academic institutions provide practical information and guidance based on years of industry experience. Collectively, they review the principles and critical specifics of processing savory snacks, starting from raw materials selection and care, through types of equipment used and its proper operation, to product seasoning, and packaging. The book covers every major product type, including potato and corn chips, alkali-cooked corn tortilla chips, pretzels, popcorn, extruder puffed and baked/fried products, half-products, meat snacks, and rice-based snacks. It also discusses international snack foods, including those of China, India, and Japan. It details post shaping and drying operations, covering seasonings, flavorings application, product protection and packaging materials, and filling and cartoning equipment. Whether you are new to the field or you are a professional facing broader responsibilities, *Snack Foods Processing* provides valuable information gained through first-hand experience. It presents a clear introduction to the snack foods industry and its terminology and explains the technical interrelationships between the many materials and processes used in making the finished snack food. New entrants into the field will be able to confidently communicate with suppliers and associates. Managers and quality control personnel will gain a better idea of where to start in solving problems when they arise.

Social Choice (Routledge Revivals) Bernhardt Liebermann 2012-07-26 First published in 1971, *Social Choice* is both a text and reference containing the proceedings of a conference dealing with contemporary work on the normative and descriptive aspects of the social choice problem. This reissue will be of interest to advanced undergraduate and graduate courses on group decision making and social choice. Economists, social psychologists, political scientists and sociologists will welcome this valuable work.

Experimental Methodology Larry B. Christensen 1985 Known for its readability, *Experimental Methodology* is organized so that each chapter focuses on a specific step in the research process. The primary orientation of this text is toward providing instruction in the experimental approach, but an introduction to non-experimental approaches such as ex-post facto research, correlational research, and survey research is provided. Rather than dichotomizing psychological research into descriptive and experimental research, this edition takes the more current approach of using the quantitative and qualitative research dichotomy, presented in Chapter 2. Christensen also incorporates thorough coverage of research ethics. MARKET: For anyone interested in research methods in psychology and education.

Theory and Decision 1980

Government-wide Index to Federal Research & Development Reports 1965

Polymer Science 1996

Pattern Recognition. ICPR International Workshops and Challenges Alberto Del Bimbo 2021-02-20 This 8-

volumes set constitutes the refereed of the 25th International Conference on Pattern Recognition Workshops, ICPR 2020, held virtually in Milan, Italy and rescheduled to January 10 - 11, 2021 due to Covid-19 pandemic. The 416 full papers presented in these 8 volumes were carefully reviewed and selected from about 700 submissions. The 46 workshops cover a wide range of areas including machine learning, pattern analysis, healthcare, human behavior, environment, surveillance, forensics and biometrics, robotics and egovision, cultural heritage and document analysis, retrieval, and women at ICPR2020.

Capillary Flows with Forming Interfaces Yulii D. Shikhmurzaev 2007-09-14 Capillary Flows with Forming Interfaces explores numerous theoretical problems that arise in the mathematical description of capillary flows. It focuses on developing a unified approach to a variety of seemingly very different capillary flows of

practical importance where classical fluid mechanics leads to nonphysical results. The book begins with a review of the conceptual framework of fluid mechanics and then proceeds to analyze the roots of singularities, such as the moving contact-line problem and the capillary breakup problem. The author then examines how different singular flows can be described as particular cases of a general physical phenomenon of interface formation. He illustrates the developed mathematical models and experimentally verifies them through a number of example problems relevant to engineering applications. The conceptual framework provided in this reference enables further progress in developing mathematical models of capillary flows. The book also allows readers to make informed strategic choices regarding available numerical codes and the in-house development of these codes.