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E38XPZ - TRISTIAN MOODY

In this book, we have attempted to produce a reference on high resolution focused ion beams (FIBs) that will be useful for both the user and the designer of FIB instrumentation. We have included a mix of theory and applications that seemed most useful to us. The field of FIBs has advanced rapidly since the application of the first field emission ion sources in the early 1970s. The development of the liquid metal ion source (LMIS) in the late 1960s and early 1970s and its application for FIBs in the late 1970s have resulted in a powerful tool for research and for industry. There have been hundreds of papers written on many aspects of LMIS and FIBs, and a useful and informative book on these subjects was published in 1991 by Phil Prewett and Grame Mair. Because there have been so many new applications and uses found for FIBs in the last ten years we felt that it was time for another book on the subject.

Topics include matrix-geometric invariant vectors, buffer models, queues in a random environment and more.

Progress in Optics

Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations covers the proceedings of the 1974 Symposium by the same title, held at the University of Maryland, Baltimore Country Campus. This symposium aims to bring together a number of numerical analysis involved in research in both theoretical and practical aspects of this field. This text is organized into three parts encompassing 15 chapters. Part I reviews the initial and boundary value problems. Part II explores a large number of important results of both theoretical and practical nature of the field, including discussions of the smooth and local interpolant with small K-th derivative, the occurrence and solution of boundary value reaction systems, the posteriori error estimates, and boundary problem solvers for first order systems based on deferred corrections. Part III highlights the practical applications of the boundary value problems, specifically a high-order finite-difference method for the solution of two-point boundary-value problems on a uniform mesh. This book will prove useful to mathematicians, engineers, and physicists.

When we talk about the challenges of technology, we’re really talking about the challenges of improvement—the ways we change and the lessons we learn on our path to making things better. The challenge—and the opportunity—is that technology offers us so many options. It’s bemusing! What areas of our business do we focus on? How can we make them better? Trusting Technology is a handbook to help business leaders become centered in their focus, approach, and resilience with adopting and adapting technology. You will learn how to: • Generate, curate, and make ideas happen. • Better understand how to improve your customer’s journey. • Build a machine that connects your business’s community of customers and colleagues. • Nurture confidence in the face of change. • Create insights with the information that matters to your colleagues and customers. • Describe your security strategy in five minutes. • Capture your business’s special sauce to create new assets. • Navigate a course to your business future with rapid learning and minimalist change. • Master the art of estimation. • Benchmark your organization—any organization—as a tech business. • Build a platform to keep pace with the innovation needs of your business. • Find inspiration and build on the achievements of others. This vital conversation is not about the technology itself, but rather, the connections it enables and the change it imposes on our comfortably imperfect routine and environment. The means are not software code and hardware bits, but rather systems thinking, empathetic change, rapid learning, and adaptive planning. Trusting Technology is about the humanity of advancement feeding the advancement of humanity.

Examining recent advances in both TV delivery and computing/networking technologies, this book explores profitable, successful next-generation TV offerings. The focus of this comprehensive report is on using advances in internet technologies and networking to deliver competitive, multichannel pay-TV services to customer TV sets.

This Topics volume is devoted to a study of sound propagation in the ocean. The effect of the interior of the ocean on underwater sound is analogous to the effect of a lens on light. The oceanic lens is related, as in light propagation, to the index of refraction of the medium. The latter is giv~n by the ratio of the sound frequency to the speed of sound in water, typi ca lly about 1500 m s -1. It is the vari ation of the sound speed due to changing temperature, density, salinity, and pres sure in the complex ocean environment which creates the lens effect. Many oceanic processes such as currents, tides, eddies (circulating, translating regions of wa ter), and internal waves (the wave-like structure of the oceanic density variabil ity) contri bute in turn to the changes in sound speed'. The net effect of the ocean lens is to trap and guide sound waves in a channel created by the lens. The trapped sound can then propagate thousands of miles in this oceanic waveguide. In addition to the propagation in the interior of the ocean, sound can propagate into and back out of the ocean bottom as well as scatter from the ocean surface. Just as the sound produced by a loudspeaker in a room is affected by the walls of the room, so the ocean boundaries and the material properties below the ocean bottom are essential ingredients in the problem.

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202 5. 2 Second-Order Designs 207 5. 3 Third-Order Designs 216 5. 4 Higher-Order designs 221 6. Optimal Arrays for Cylindrically Isotropic Fields 222 6. 1 Maximum Gain for Omnidirectional Microphones 222 6. 2 Optimal Weights for Maximum Directional Gain 224 6. 3 Solution for Optimal Weights for Maximum Front-to-Back Ratio for Cylindrical Noise 225 7. Sensitivity to Microphone Mismatch and Noise 230 8.

This book covers the principles of operation of electromagnetic waveguides and transmission lines. The approach is divided between mathematical descriptions of basic behaviors and treatment of specific types of waveguide structures. Classical (distributed-network) transmission lines, their basic properties, their connection to lumped-element networks, and the distortion of pulses are discussed followed by a full field analysis of waveguide modes. Modes of specific kinds of waveguides - traditional hollow metallic waveguides, dielectric (including optical) waveguides, etc. are discussed. Problems of excitation and scattering of waveguide modes are addressed, followed by discussion of real systems and performance.

Proceedings of the International Workshop, Delhi, India, November 14-16, 1985

This book, first published in 1939, updated in 1953, explores the applications to mathematical problems in various branches of technology.

Highly readable paperback reprint of one of the great time-tested classics in the field of signal processing Together with the reprint of Part III and the new Part IV, this will be the most complete treatment of the subject available As imperative today as it was when it originally published Has important applications in radar, sonar, communications, seismology, biomedical engineering, and astronomy Includes section summaries, examples, and a large number of problems

This book deals with Markov chains and Markov renewal processes (M/G/1 type). It discusses numerical difficulties which are apparently inherent in the classical analysis of a variety of stochastic models by methods of complex analysis.

Integer Programming: Theory, Applications, and Computations provides information pertinent to the theory, applications, and computations of integer programming. This book presents the computational advantages of the various techniques of integer programming. Organized into eight chapters, this book begins with an overview of the general categorization of integer applications and explains the three fundamental techniques of integer programming. This text then explores the concept of implicit enumeration, which is general in a sense that it is applicable to any well-defined binary program. Other chapters consider the branch-and-bound methods, the cutting-plane method, and its closely related asymptotic problem. This book discusses as well several specialized algorithms for certain well-known integer models and provides an alternative approach to the solution of the integer problem. The final chapter deals with a number of observations about the formulations and executions of integer programming models. This book is a valuable resource for industrial engineers and research workers.

In the past two decades, breakthroughs in computer technology have made a tremendous impact on optimization. In particular, availability of parallel computers has created substantial interest in exploring the use of parallel processing for solving discrete and global optimization problems. The chapters in this volume cover a broad spectrum of recent research in parallel processing of discrete and related problems. The topics discussed include distributed branch-and-bound algorithms, parallel genetic algorithms for large scale discrete problems, simulated annealing, parallel branch-and-bound search under limited-memory constraints, parallelization of greedy randomized adaptive search procedures, parallel optical models of computing, randomized parallel algorithms, general techniques for the design of parallel discrete algorithms, parallel algorithms for the solution of quadratic assignment and satisfiability problems. The book will be a valuable source of information to faculty, students and researchers in combinatorial optimization and related areas.

The greater cost of marketing live poultry as compared with dressed poultry is partly transportation cost insofar as the poultry is carried by freight. But the major portion is found in the service charges at New York City.