Numerical Analysis S A Mollah For

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My Life with the Taliban Abdul Salam Zaeef 2010-01-01 This is the autobiography of Abdul Salam Zaeef, a senior former member of the Taliban. His memoirs, translated from Pashto, are more than just a personal account of his extraordinary life. My Life with the Taliban offers a counter-narrative to the standard accounts of Afghanistan since 1979. Zaeef describes growing up in rural poverty in Kandahar province. Both of his parents died at an early age, and the Russian invasion of 1979 forced him to flee to Pakistan. He started fighting the jihad in 1983, during which time he was associated with many major figures in the anti-Soviet resistance, including the current Taliban head Mullah Mohammad Omar. After the war Zaeef returned to a quiet life in a small village in Kandahar, but chaos soon overwhelmed Afghanistan as factional fighting erupted after the Russians pulled out. Disgusted by the lawlessness that ensued, Zaeef was one among the former mujahidin who were closely involved in the discussions that led to the emergence of the Taliban, in 1994. Zaeef then details his Taliban career as civil servant and minister who negotiated with foreign oil companies as well as with Afghanistan's own resistance leader, Ahmed Shah Massoud. Zaeef was ambassador to Pakistan at the time of the 9/11 attacks, and his account discusses the strange "phoney war" period before the US-led intervention toppled the Taliban. In early 2002 Zaeef was handed over to American forces in Pakistan, notwithstanding his diplomatic status, and spent four and a half years in prison (including several years in Guantanamo) before being released without having been tried or charged with any offence. My Life with the Taliban offers a personal and privileged insight into the rural Pashtun village communities that are the Taliban's bedrock. It helps to explain what drives men like Zaeef to take up arms against the foreigners who are foolish enough to invade his homeland.

Introduction to Real Analysis S.K. Mapa 2014-04 This text forms a bridge between courses in calculus and real analysis. Suitable for advanced undergraduates and graduate students, it focuses on the construction of mathematical proofs. 1996 edition.

Numerical Methods (As Per Anna University) Satteluri R. K. Iyengar 2009-01-01 About the Book: This comprehensive textbook covers material for one semester course on Numerical Methods (MA 1251) for B.E./ B. Tech. students of Anna University. The emphasis in the book is on the presentation of fundamentals and theoretical concepts in an intelligible and easy to understand manner. The book is written as a textbook rather than as a problem/guide book. The textbook offers a logical presentation of both the theory and techniques for problem solving to motivate the students in the study and application of Numerical Methods. Examples and Problems in Exercises are used to explain.

Numerical Analysis L. Ridgway Scott 2011-04-18 Computational science is fundamentally changing how technological questions are addressed. The design of aircraft, automobiles, and even racing sailboats is now done by computational simulation. The mathematical foundation of this new approach is numerical analysis, which studies algorithms for computing expressions defined with real numbers. Emphasizing the theory behind the computation, this book provides a rigorous and self-contained introduction to numerical analysis and presents the advanced mathematics that underpin industrial software, including complete details that are missing from most textbooks. Using an inquiry-based learning approach, Numerical Analysis is written in a narrative style, provides historical background, and includes many of the proofs and technical details in exercises. Students will be able to go beyond an elementary understanding of numerical simulation and develop deep insights into the foundations of the subject. They will no longer have to accept the mathematical gaps that exist in current textbooks. For example, both necessary and sufficient conditions for convergence of basic iterative methods are covered, and proofs are given in full generality, not just based on special cases. The book is accessible to undergraduate mathematics majors as well as computational scientists wanting to learn the foundations of the subject. Presents the mathematical foundations of numerical analysis Explains the mathematical details behind simulation software Introduces many advanced concepts in modern analysis Self-contained and mathematically rigorous Contains problems and solutions in each chapter Excellent follow-up course to Principles of Mathematical Analysis by Rudin

BiochemistryNaval Medical School (U.S.) 1960

Graph Theory with Applications to Engineering and Computer Science Narsingh Deo 1974 Because of its inherent simplicity, graph theory has a wide range of applications in engineering, and in physical sciences. It has of course uses in social sciences, in linguistics and in numerous other areas. In fact, a graph can be used to represent almost any physical situation involving discrete objects and the relationship among them. Now with the solutions to engineering and other problems becoming so complex leading to larger graphs, it is virtually difficult to analyze without the use of computers. This book is recommended in IIT Kharagpur, West Bengal for B.Tech Computer Science, NIT Arunachal Pradesh, NIT Nagaland, NIT Agartala, NIT Silchar, Gauhati University, Dibrugarh University, North Eastern Regional Institute of Management, Assam Engineering College, West Bengal Univerity of Technology (WBUT) for B.Tech, M.Tech Computer Science, University of Burdwan, West Bengal for B.Tech. Computer Science, Jadavpur University, West Bengal for M.Sc. Computer Science, Kalyani College of Engineering, West Bengal for B.Tech. Computer Science. Key Features: This book provides a rigorous yet informal treatment of graph theory with an emphasis on computational aspects of graph theory and graph-theoretic algorithms. Numerous applications to actual engineering problems are incorpo-rated with software design and optimization topics.

Numerical Methods For Scientific And Engineering Computation M.K. Jain 2003

Immunology and Immunotechnology Ashim K. Chakravarty 2005-12 Immunology and Immuntechnology provides the reader with a clear understanding of the fundamentals of immunology. Aimed at students of biotechnology, it covers the latest technologies and techniques for diagnosis, new vaccines, etc. and would be useful for both undergraduate and postgradate courses.

Permanent Magnet Synchronous Machines Sandra Eriksson 2019-08-20 Interest in permanent magnet synchronous machines (PMSMs) is continuously increasing worldwide, especially with the increased use of renewable energy and the electrification of transports. This book contains the successful submissions of fifteen papers to a Special Issue of Energies on the subject area of “Permanent Magnet Synchronous Machines”. The focus is on permanent magnet synchronous machines and the electrical systems they are connected to. The presented work represents a wide range of areas. Studies of control systems, both for permanent magnet synchronous machines and for brushless DC motors, are presented and experimentally verified. Design studies of generators for wind power, wave power and hydro power are presented. Finite element method simulations and analytical design methods are used. The presented studies represent several of the different research fields on permanent magnet machines and electric drives.

The Swallows of Kabul Yasmina Khadra 2005 Set in Kabul under the rule of the Taliban, this extraordinary novel takes readers into the lives of two couples to offer an unflinching but compassionate insight into a society that violence and hypocrisy have brought to the edge of despair.

An Introduction to Numerical Methods and Analysis James F. Epperson 2013-06-06 Praise for the First Edition ". . . outstandingly appealing with regard to its style, contents, considerations of requirements of practice, choice of examples, and exercises." —Zentrablatt Math ". . . carefully structured with many detailed worked examples . . ." —The Mathematical Gazette ". . . an up-to-date and user-friendly account . . ." —Mathematika An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis.

An INTRODUCTION to ANALYSIS (Differential Calculus) Ghosh & Maity 2014 In the first two chapters, the basic concepts of elementary analysis have been thoroughly discussed.

Risk Management Applications in Pharmaceutical and Biopharmaceutical Manufacturing Hamid Mollah 2013-03-18 This book contains both the theory and practice of risk management (RM) and provides the background, tools, and application of risk in pharmaceutical and biologics manufacturing and operations. It includes case studies and specific examples of use of RM for biological and pharmaceutical product manufacture. The book also includes useful references and a bibliography for the reader who wishes to gain additional knowledge in the subject. It aids in assisting both industry and regulatory agencies to implement compliant and effective risk management approaches, and includes case studies to help with understanding.

Numerical Analysis & Statistical Methods

Engineering Mechanics 2008

Data Structures Using C Reema Thareja 2014-07-11 This second edition of Data Structures Using C has been developed to provide a comprehensive and consistent coverage of both the abstract concepts of data structures as well as the implementation of these concepts using C language. It begins with a thorough overview of the concepts of C programming followed by introduction of different data structures and methods to analyse the complexity of different algorithms. It then connects these concepts and applies them to the study of various data structures such as arrays, strings, linked lists, stacks, queues, trees, heaps, and graphs. The book utilizes a systematic approach wherein the design of each of the data structures is followed by algorithms of different operations that can be performed on them, and the analysis of these algorithms in terms of their running times. Each chapter includes a variety of end-chapter exercises in the form of MCQs with answers, review questions, and programming exercises to help readers testtheir knowledge.

NUMERICAL ANALYSIS WITH ALGORITHMS AND COMPUTER PROGRAMS IN C++ AJAY WADHWA 2012-01-18 This concise introduction to Numerical Methods blends the traditional algebraic approach with the computer-based approach, with special emphasis on evolving algorithms which have been directly transformed into programs in C++. Each numerical method used for solving nonlinear algebraic equations, simultaneous linear equations, differentiation, integration, ordinary differential equations, curve-fitting, etc. is accompanied by an algorithm and the corresponding computer program. All computer programs have been test run on Linux ‘Ubuntu C++’ as well as Window-based ‘Dev C++’, Visual C++ and ‘Turbo C++’ compiler systems. Since different types of C++ compilers are in use today, instructions have been given with each computer program to run it on any kind of compiler. To this effect, an introductory chapter on C++ compilers has been added for ready reference by the students and teachers. Another major feature of the book is the coverage of the practicals prescribed for laboratory work in Numerical Analysis. Each chapter has a large number of laboratory tested programming examples and exercises including questions from previous years’ examinations. This textbook is intended for the undergraduate science students pursuing courses in BSc (Hons.) Physics, BSc (Hons.) Electronics and BSc (Hons.) Mathematics. It is also suitable for courses on Numerical Analysis prescribed for the engineering students of all disciplines.

Proceedings of International Joint Conference on Computational Intelligence Mohammad Shorif Uddin 2019-07-03 This book gathers outstanding research papers presented at the International Joint Conference on Computational Intelligence (IJCCI 2018), which was held at Daffodil International University on 14–15 December 2018. The topics covered include: collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal and natural language processing.

The Principles of Sociology Herbert Spencer 1895

Elements of Metric Spaces Nanabendra Nath Mukherjee 2010

Loss and Damage from Climate Change Reinhard Mechler 2018-11-28 This book provides an authoritative insight on the Loss and Damage discourse by highlighting state-of-the-art research and policy linked to this discourse and articulating its multiple concepts, principles and methods. Written by leading researchers and practitioners, it identifies practical and evidence-based policy options to inform the discourse and climate negotiations. With climate-related risks on the rise and impacts being felt around the globe has come the recognition that climate mitigation and adaptation may not be enough to manage the effects from anthropogenic climate change. This recognition led to the creation of the Warsaw International Mechanism on Loss and Damage in 2013, a climate policy mechanism dedicated to dealing with climate-related effects in highly vulnerable countries that face severe constraints and limits to adaptation. Endorsed in 2015 by the Paris Agreement and effectively considered a third pillar of international climate policy, debate and research on Loss and Damage continues to gain enormous traction. Yet, concepts, methods and tools as well as directions for policy and implementation have remained contested and vague. Suitable for researchers, policy-advisors, practitioners and the interested public, the book furthermore: • discusses the political, legal, economic and institutional dimensions of the issue• highlights normative questions central to the discourse • provides a focus on climate risks and climate risk management. • presents salient case studies from around the world.

Computational Intelligence in Pattern Recognition Asit Kumar Das 2020-02-19 This book features high-quality research papers presented at the 2nd International Conference on Computational Intelligence in Pattern Recognition (CIPR 2020), held at the Institute of Engineering and Management, Kolkata, West Bengal, India, on 4–5 January 2020. It includes practical development experiences in various areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

AN INTRODUCTION TO NUMERICAL ANALYSIS, 2ND ED Kendall E. Atkinson 2008-09 Market_Desc: · Mathematics Students · Instructors About The Book: This Second Edition of a standard numerical analysis text retains organization of the original edition, but all sections have been revised, some extensively, and bibliographies have been updated. New topics covered include optimization, trigonometric interpolation and the fast Fourier transform, numerical differentiation, the method of lines, boundary value problems, the conjugate gradient method, and the least squares solutions of systems of linear equations.

Analytical Dynamics Of A Particle (hons) Ganguly & Saha 1996

Nonnegative Matrix and Tensor Factorizations Andrzej Cichocki 2009-07-10 This book provides a broad survey of models and efficient algorithms for Nonnegative Matrix Factorization (NMF). This includes NMF's various extensions and modifications, especially Nonnegative Tensor Factorizations (NTF) and Nonnegative Tucker Decompositions (NTD). NMF/NTF and their extensions are increasingly used as tools in signal and image processing, and data analysis, having garnered interest due to their capability to provide new insights and relevant information about the complex latent relationships in experimental data sets. It is suggested that NMF can provide meaningful components with physical interpretations; for example, in bioinformatics, NMF and its extensions have been successfully applied to gene expression, sequence analysis, the functional characterization of genes, clustering and text mining. As such, the authors focus on the algorithms that are most useful in practice, looking at the fastest, most robust, and suitable for large-scale models. Key features: Acts as a single source reference guide to NMF, collating information that is widely dispersed in current literature, including the authors' own recently developed techniques in the subject area. Uses generalized cost functions such as Bregman, Alpha and Beta divergences, to present practical implementations of several types of robust algorithms, in particular Multiplicative, Alternating Least Squares, Projected Gradient and Quasi Newton algorithms. Provides a comparative analysis of the different methods in order to identify approximation error and complexity. Includes pseudo codes and optimized MATLAB source codes for almost all algorithms presented in the book. The increasing interest in nonnegative matrix and tensor factorizations, as well as decompositions and sparse representation of data, will ensure that this book is essential reading for engineers, scientists, researchers, industry practitioners and graduate students across signal and image processing; neuroscience; data mining and data analysis; computer science; bioinformatics; speech processing; biomedical engineering; and multimedia.

Tales Of Untold THIRTEEN Mirajul Mollah Is it possible for one to experience all the aspects of life? Of course not! Sometimes, they are to be experienced through stories of some other men who face it…. 'Tales Of Untold Thirteen' is a collection of thirteen short stories of diverse taste. Inspired by almost all the real events, these stories have been knitted by the needle of the author's imagination. The book captures lives of some ordinary guys placed at extraordinary situation. The book will be an exceptional read, as it contains stories seldom shared, songs scarcely sung- until you discover them. Fresh shock will be what remains after you finish each story as they end in utter surprise. So, journey through these tales of twists and turns, rise and fall. Hope the book will not fail to keep its promise of being an amazing read…

Numerical Analysis for Statisticians Kenneth Lange 2010-05-17 Numerical analysis is the study of computation and its accuracy, stability and often its implementation on a computer. This book focuses on the principles of numerical analysis and is intended to equip those readers who use statistics to craft their own software and to understand the advantages and disadvantages of different numerical methods.

Advances in the Homotopy Analysis Method Shijun Liao 2013-11-26 Unlike other analytic techniques, the Homotopy Analysis Method (HAM) is independent of small/large physical parameters. Besides, it provides great freedom to choose equation type and solution expression of related linear high-order approximation equations. The HAM provides a simple way to guarantee the convergence of solution series. Such uniqueness differentiates the HAM from all other analytic approximation methods. In addition, the HAM can be applied to solve some challenging problems with high nonlinearity. This book, edited by the pioneer and founder of the HAM, describes the current advances of this powerful analytic approximation method for highly nonlinear problems. Coming from different countries and fields of research, the authors of each chapter are top experts in the HAM and its applications. Contents:Chance and Challenge: A Brief Review of Homotopy Analysis Method (S-J Liao)Predictor Homotopy Analysis Method (PHAM) (S Abbasbandy and E Shivanian)Spectral Homotopy Analysis Method for Nonlinear Boundary Value Problems (S Motsa and P Sibanda)Stability of Auxiliary Linear Operator and Convergence-Control Parameter (R A Van Gorder)A Convergence Condition of the Homotopy Analysis Method (M Turkyilmazoglu)Homotopy Analysis Method for Some Boundary Layer Flows of Nanofluids (T Hayat and M Mustafa)Homotopy Analysis Method for Fractional Swift–Hohenberg Equation (S Das and K Vishal)HAM-Based Package NOPH for Periodic Oscillations of Nonlinear Dynamic Systems (Y-P Liu)HAM-Based Mathematica Package BVPh 2.0 for Nonlinear Boundary Value Problems (Y-L Zhao and S-J Liao) Readership: Graduate students and researchers in applied mathematics, physics, nonlinear mechanics, engineering and finance. Keywords:Analytic Approxiamtion Method;Nonlinear;Homotopy;Applied MathematicsKey Features:The method described in the book can overcome almost all restrictions of other analytic approximation method for nonlinear problemsThis book is the first in homotopy analysis method, covering the newest advances, contributed by many top experts in different fields

A Course in Abstract Algebra, 5th Edition Khanna V.K. & Bhamri S.K 2016 Designed for undergraduate and postgraduate students of mathematics, the book can also be used by those preparing for various competitive examinations. The text starts with a brief introduction to results from Set theory and Number theory. It then goes on to cover Groups, Rings, Fields and Linear Algebra. The topics under groups include subgroups, finitely generated abelian groups, group actions, solvable and nilpotent groups. The course in ring theory covers ideals, embedding of rings, Euclidean domains, PIDs, UFDs, polynomial rings, Noetherian (Artinian) rings. Topics of field include algebraic extensions, splitting fields, normal extensions, separable extensions, algebraically closed fields, Galois extensions, and construction by ruler and compass. The portion on linear algebra deals with vector spaces, linear transformations, Eigen spaces, diagonalizable operators, inner product spaces, dual spaces, operators on inner product spaces etc. The theory has been strongly supported by numerous examples and worked-out problems. There is also plenty of scope for the readers to try and solve problems on their own.New in this Edition• A full section on operators in inner product spaces.• Complete survey of finite groups of order up to 15 and Wedderburn theorem on finite division rings.• Addition of around one hundred new worked-out problems and examples.• Alternate and simpler proofs of some results.• A new section on quick recall of various useful results at the end of the book to facilitate the reader to get instant answers to tricky questions.

Proceedings of International Conference on Frontiers in Computing and Systems Debotosh Bhattacharjee 2020-11-23 This book gathers outstanding research papers presented at the International Conference on Frontiers in Computing and Systems (COMSYS 2020), held on January 13–15, 2019 at Jalpaiguri Government Engineering College, West Bengal, India and jointly organized by the Department of Computer Science & Engineering and Department of Electronics & Communication Engineering. The book presents the latest research and results in various fields of machine learning, computational intelligence, VLSI, networks and systems, computational biology, and security, making it a rich source of reference material for academia and industry alike.

Know Your State West Bengal Goutam Chakraborty 2020-12-07 An editorial team of highly skilled professionals at Arihant, works hand in glove to ensure that the students receive the best and accurate content through our books. From inception till the book comes out from print, the whole team comprising of authors, editors, proofreaders and various other involved in shaping the book put in their best efforts, knowledge and experience to produce the rigorous content the students receive. Keeping in mind the specific requirements of the students and various examinations, the carefully designed exam oriented and exam ready content comes out only after intensive research and analysis. The experts have adopted whole new style of presenting the content which is easily understandable, leaving behind the old traditional methods which once used to be the most effective. They have been developing the latest content & updates as per the needs and requirements of the students making our books a hallmark for quality and reliability for the past 15 years.

C Language And Numerical Methods C. Xavier 2007 C Language Is The Popular Tool Used To Write Programs For Numerical Methods. Because Of The Importance Of Numerical Methods In Scientific Industrial And Social Research.C Language And Numerical Methods Is Taught Almost In All Graduate And Postgraduate Programs Of Engineering As Well As Science. In This Book, The Structures Of C Language Which Are Essential To Develop Numerical Methods Programs Are First Introduced In Chapters 1 To 7. These Concepts Are Explained With Appropriate Examples In A Simple Style. The Rest Of The Book Is Devoted For Numerical Methods. In Each Of The Topic On Numerical Methods, The Subject Is Presented In Four Steps, Namely, Theory, Numerical Examples And Solved Problems, Algorithms And Complete C Program With Computer Output Sheets. In Each Of These Chapters, A Number Of Solved Problems And Review Questions Are Given As A Drill Work On The Subject. In Appendix The Answers To Some Of The Review Questions Are Given.

Computational Intelligence in Pattern Recognition Asit Kumar Das 2019-08-17 This book presents practical development experiences in different areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

BiotechnologyU. Satyanarayana 2017

NUMERICAL ANALYSIS Vinay Vachharajani 2018-06-01 Description:This book is Designed to serve as a text book for the undergraduate as well as post graduate students of Mathematics, Engineering, Computer Science.COVERAGE:Concept of numbers and their accuracy, binary and decimal number system, limitations of floating point representation.Concept of error and their types, propagation of errors through process graph.Iterative methods for finding the roots of algebraic and transcendental equations with their convergence, methods to solve the set of non-linear equations, methods to obtain complex roots.Concept of matrices, the direct and iterative methods to solve a system of linear algebraic equations.Finite differences, interpolation and extrapolation methods, cubic spline, concept of curve fitting.Differentiation and integration methods.Solution of ordinary and partial differential equations SALIENT FEATURES:Chapters include objectives, learning outcomes, multiple choice questions, exercises for practice and solutions.Programs are written in C Language for Numerical methods.Topics are explained with suitable examples.Arrangement (Logical order), clarity, detailed presentation and explanation of each topic with numerous solved and unsolved examples.Concise but lucid and student friendly presentation for derivation of formulas used in various numerical methods. Table Of Contents:Computer ArithmeticError Analysis Solution of Algebraic and Transcendental Equations Solution of System of Linear Equations and Eigen value Problems Finite Differences Interpolation Curve Fitting and Approximation Numerical Differentiation Numerical Integration Difference Equations Numerical Solution of Ordinary Differential Equations Numerical Solution of Partial Differential Equations Appendix - I Case Studies / Applications Appendix - II Synthetic Division Bibliography Index

COMPUTER PROGRAMMING IN FORTRAN 90 AND 95 V. RAJARAMAN 1997-01-01 This book introduces Computer Programming to a beginner, using Fortran 90 and its recent extension Fortran 95. While Fortran 77 has been used for many years and is currently very popular, computer scientists have been seriously concerned about good programming practice to promote development of reliable

programs. Thus, the International Standards Organization set up a group to 'modernise' Fortran and introduce new features which have made languages such as Pascal and C popular. The committee took over a decade to come up with the new standard, Fortran 90. Fortran 90 has introduced many new features in Fortran, such as recursion, pointers, user-defined data types etc., which were hitherto available only in languages such as Pascal and C. Fortran 90 is not an evolutionary change of Fortran 77 but is drastically different. Though Fortran 77 programs can be run using a Fortran 90 compiler, Fortran 90 is so different that the author felt it was not a good idea to just revise Fortran 77 and introduce Fortran 90 in some places in the book. Thus this book is entirely new and introduces Fortran 90 from basics. In 1996 some small extensions were made to Fortran 90 and has called Fortran 95. This book also discusses these features. As all new programs in Fortran will henceforth be written in Fortran 90, it is essential for students to learn this language.The methodology of presentation, however, closely follows the one used by the author in his popular book on Fortran 77.

The Future of the Bamiyan Buddha Statues Masanori Nagaoka 2020-12-07 This Open Access book explores heritage conservation ethics of post conflict and provides an important historical record of the possible reconstruction of the Bamiyan Buddha statues, which was inscribed in the UNESCO World Heritage List in Danger in 2003 as “Cultural Landscape and Archaeological Remains of the Bamiyan Valley”. With the condition that most surface of the original fragments of the Buddha statues were lost due to acts of deliberate destruction, this publication explores a reference point for conservation practitioners and policy makers around the world as they consider how to respond to on-going acts of destruction of cultural heritage. Whilst there has been an emerging debate to the ethics and nature of heritage reconstruction, this volume provides a plethora of ideas and approaches concerning the future treatment of the Bamiyan Buddha statues. It also addresses a number of fundamental questions on potential heritage reconstruction: how it will be done; who will decide; and what it should be done for. Moreover when it comes to the inscribed World Heritage properties, how can reconstructed heritage using non-original materials be considered to retain authenticity? With a view to serving as a precedent for potential decisions taken elsewhere in the world for cultural properties impacted by acts of violence and destruction, this volume introduces academic researches, experiences and observations of heritage conservation theory and practice of heritage reconstruction. It also addresses the issue not merely from the point of a material conservation philosophy but within the context of holistic strategies for the protection of human rights and promotion of peace building.

Hybrid Intelligence for Image Analysis and Understanding Siddhartha Bhattacharyya 2017-07-27 A synergy of techniques on hybrid intelligence for real-life image analysis Hybrid Intelligence for Image Analysis and Understanding brings together research on the latest results and progress in the development of hybrid intelligent techniques for faithful image analysis and understanding. As such, the focus is on the methods of computational intelligence, with an emphasis on hybrid intelligent methods applied to image analysis and understanding. The book offers a diverse range of hybrid intelligence techniques under the umbrellas of image thresholding, image segmentation, image analysis and video analysis. Key features: Provides in-depth analysis of hybrid intelligent paradigms. Divided into self-contained chapters. Provides ample case studies, illustrations and photographs of real-life examples to illustrate findings and applications of different hybrid intelligent paradigms. Offers new solutions to recent problems in computer science, specifically in the application of hybrid intelligent techniques for image analysis and understanding, using well-known contemporary algorithms. The book is essential reading for lecturers, researchers and graduate students in electrical engineering and computer science.

Applied Mechanics Reviews 1992

Introductory Methods of Numerical Analysis S. S. Sastry 1984-01-01