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Meaning-based Translation Wolfram Research, Incorporated
The Scope of the Work The main purpose of this work is to give a critical edition of a Javanese text - the Serat Cabolek - together with an Introduction, an English trans lation of the text, and Notes. The present publication is a slighdy revised version of a doctoral dissertation submitted to the Australian National Univer sity in 1967. The Introduction to the text begins with a brief description of each of the extant MSS of the Serat Cabolek to be found in the Manuscript Sections of the Jakarta Museum Library and the Lembaga Kebudayaan Indonesia and in the Griental Manuscripts Section of the Leiden University Library. In addition, a description is given of a printed version of the Serat Cabolek. The eleven MSS and the printed text are compared with one another on the points of form, structure and content, in order to discover their mutual relationship. From this comparison it becomes clear that no matter how much these eleven MSS and the printed text of theSerat Cabolek may differ the one from the other, they all share a common core and all ultimately derive from a single source. The kernel of the Serat Cabolek in all probability comprised only the following sections: (1) the story dealing with the trial of Haji Mutamakin by the Kartasura tribunal; (2) the teaching of Dewa Ruci to Bhima; and (3) a commentary on Dewa Ruds counsel to Bhima.
Phytolith Systematics Peeters Publishers
A systematic introduction to partial differential equations and modern finite element methods for their efficient numerical solution Partial Differential Equations and the Finite Element Method provides a much-needed, clear, and systematic introduction to modern theory of partial differential equations (PDEs) and finite element methods (FEM). Both nodal and hierachic concepts of the FEM are examined. Reflecting the growing complexity and multiscale nature of current engineering and scientific problems, the author emphasizes higher-order finite element methods such as the spectral or hp-FEM. A solid introduction to the theory of PDEs and FEM contained in Chapters 1-4 serves as the core and foundation of the publication. Chapter 5 is devoted to modern higher-order methods for the numerical solution of ordinary differential equations (ODEs) that arise in the semidiscretization of time-dependent PDEs by the Method of Lines (MOL). Chapter 6 discusses fourth-order PDEs rooted in the bending of elastic beams and plates and approximates their solution by means of higher-order Hermite and Argyris elements. Finally, Chapter 7 introduces the reader to various PDEs governing computational electromagnetics and describes their finite element approximation, including modern higher-order edge elements for Maxwell's equations. The understanding of many theoretical and practical aspects of both PDEs and FEM requires a solid knowledge of linear algebra and elementary functional analysis, such as functions and linear operators in the Lebesgue, Hilbert, and Sobolev spaces. These topics are discussed with the help of many illustrative examples in Appendix A, which is provided as a service for those readers who need to gain the necessary background or require a refresher tutorial. Appendix B presents several finite element computations rooted in practical engineering problems and demonstrates the benefits of using higher-order FEM. Numerous finite element algorithms are written out in detail alongside implementation discussions. Exercises, including many that involve programming the FEM, are designed to assist the reader in solving typical problems in engineering and science. Specifically designed as a coursebook, this student-tested publication is geared to upper-level undergraduates and graduate students in all disciplines of computational engineeringand science. It is also a practical problem-solving reference for researchers, engineers, and physicists.
Building Thinking Classrooms in Mathematics, Grades K-12 John Wiley & Sons

The fourth edition of "Principles and Applications of Electrical Engineering" provides comprehensive coverage of the principles of electrical, electronic, and electromechanical engineering to non-electrical engineering majors. Building on the success of previous editions, this text focuses on relevant and practical applications that will appeal to all engineering students.

Some Blunders of Indian Historical Research Springer

Emphasizing the value of idiomatic and unconstrained language, this introductory textbook begins with an overview of the fundamental principles of translation. The rest of the chapters expand and illustrate these principles with examples from a wide range of languages--particularly Asian, African, and Amerindian languages. The author uses the recently established principles of text-linguistics in her explanations of the interplay of syntax, semantics, and communicative force through stress and variations of word order in the composition of a text. She also presents a thorough treatment of collocations and the semantic distortions of literal translation. Annotation copyrighted by Book News, Inc., Portland, OR

Mass Communications and the Advertising Industry Pergamon

The name of Ruckers is as important to early keyboard instruments as Stradivarius is to strings. This book describes in close detail the art and technique of the Ruckers family, who produced harpsichords and virginals throughout a period of over 100 years. Dr O'Brien provides detailed information about the construction and decoration of Ruckers harpsichords and virginals, as well as the numbering, pitch, stringing, and the determination of the original state of their instruments. Like Stradivarius violins, Ruckers instruments were later altered, and the nature and musical significance of these alterations are discussed, as is the influence of the Ruckers style on later building practice. The instruments in their original and altered states are considered in relation to the music of the time and to contemporary performance practice. The text is richly illustrated with diagrams and pictures of original instruments, and with plan-view photographs reproduced at a scale of 1:10. The book also contains a partially illustrated catalogue of authentic and fake instruments, followed by extensive appendices.

Physics-based Animation Springer Nature

This is a collection of surveys on important mathematical ideas, their origin, their evolution and their impact in current research. The authors are mathematicians who are leading experts in their fields. The book is addressed to all mathematicians, from undergraduate students to senior researchers, regardless of the specialty.

The Chinese of Pasuruan Springer

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Concepts of Biology Springer Science & Business Media

The Wolfram Language represents a major advance in programming languages that makes leading-edge computation accessible to everyone. Unique in its approach of building in vast knowledge and automation, the Wolfram Language scales from a single line of easy-to-understand interactive code to million-line production systems. This book provides an elementary introduction to the Wolfram Language and modern computational thinking. It assumes no prior knowledge of programming, and is suitable for both technical and non-technical college and high-school students, as well as anyone with an interest in the latest technology and its practical application.

Coptic in 20 Lessons John Wiley & Sons

New materials enable advances in engineering design. This book describes a procedure for material selection in mechanical design, allowing the most suitable materials for a given application to be identified from the full range of materials and section shapes available. A novel approach is adopted not found elsewhere. Materials are introduced through their properties; materials selection charts (a new development) capture the important features of all materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimisation of the materials selection process. Sources of material property data are reviewed and approaches to their use are given. Material processing and its influence on the design are discussed. The book closes with chapters on aesthetics and industrial design. Case studies are developed as a method of illustrating the procedure and as a way of developing the ideas further.

BC Science Connections 9 Courier Corporation

Cohomology operations are at the center of a major area of activity in algebraic topology. This treatment explores the single most important variety of operations, the Steenrod squares. It constructs these operations, proves their major properties, and provides numerous applications, including several different techniques of homotopy theory useful for computation. 1968 edition.

Nelson Science Connections 9 Springer Nature

Best Value Bundle: Each Student Text purchase includes online access to the Student eBook EXTRA. Nelson Science Perspectives 10 offers a variety of features that engage, motivate, and stimulate student curiosity while providing appropriate rigour suitable for Grade 10 academic students. Student interest and attention will be captured through a powerful blend of engaging content, impactful visuals, and the dynamic use of cutting-edge technology. Instructors will be able to create a dynamic learning environment through the use of the program's comprehensive array of multimedia tools for teaching and learning. This visually engaging student resource includes: * Newly written content developed for students in an age-appropriate and accessible language * Real-world connections to science, technology, society, and the environment (STSE) that make the content relevant to students * 100% match to the Ontario 2009 revised science curriculum * A variety of short hands-on activities and more in-depth lab investigations * Skills Handbook that provides support for the development of skills and processes of science, safety, and communication of science terms *Hardcover

Nelson Science Perspectives 10 McGraw Hill Professional

Coptic in 20 Lessons is written by the author of the most authoritative reference grammar of the Coptic language, and is based on decades of pedagogical experience. In easy steps and simple explanations, it teaches the patterns and syntax of Sahidic Coptic, along with the most useful vocabulary. Drills, compositions, and translation exercises enable the student to gain fluency. All words that occur more than fifty times in the Sahidic New Testament are introduced lesson by lesson in vocabulary lists, which are arranged by semantic field and accompanied by both Greek equivalents and English glosses. The book concludes with three chapters of the Gospel of Mark, in which all new

vocabulary is glossed in footnotes. Coptic in 20 Lessons is the ideal resource for use in the classroom or for teaching oneself Coptic. Critical acclaim for this book: Coptic in 20 Lessons is the up-to-date teaching grammar that Coptic studies has long needed. ... There is no better way to learn Coptic. David Brakke, Indiana University Layton brings to this book a life-long experience of teaching, combined with the authority of his masterly Coptic Grammar, arguably the best grammar of Sahidic Coptic ever written, from which the present work is distilled... A state-of-the-art account. Ariel Shisha-Halevy, Hebrew University

Nonparametric Statistics with Applications to Science and Engineering Corwin Press

A thinking student is an engaged student Teachers often find it difficult to implement lessons that help students go beyond rote memorization and repetitive calculations. In fact, institutional norms and habits that permeate all classrooms can actually be enabling "non-thinking" student behavior. Sparked by observing teachers struggle to implement rich mathematics tasks to engage students in deep thinking, Peter Liljedahl has translated his 15 years of research into this practical guide on how to move toward a thinking classroom. Building Thinking Classrooms in Mathematics, Grades K – 12 helps teachers implement 14 optimal practices for thinking that create an ideal setting for deep mathematics learning to occur. This guide Provides the what, why, and how of each practice and answers teachers ' most frequently asked questions Includes firsthand accounts of how these practices foster thinking through teacher and student interviews and student work samples Offers a plethora of macro moves, micro moves, and rich tasks to get started Organizes the 14 practices into four toolkits that can be implemented in order and built on throughout the year When combined, these unique research-based practices create the optimal conditions for learner-centered, student-owned deep mathematical thinking and learning, and have the power to transform mathematics classrooms like never before.

The Sidath Sangarawa John Wiley & Sons

Precalculus is adaptable and designed to fit the needs of a variety of precalculus courses. It is a comprehensive text that covers more ground than a typical one- or two-semester college-level precalculus course. The content is organized by clearly-defined learning objectives, and includes worked examples that demonstrate problem-solving approaches in an accessible way. Coverage and Scope Precalculus contains twelve chapters, roughly divided into three groups. Chapters 1-4 discuss various types of functions, providing a foundation for the remainder of the course. Chapter 1: Functions Chapter 2: Linear Functions Chapter 3: Polynomial and Rational Functions Chapter 4: Exponential and Logarithmic Functions Chapters 5-8 focus on Trigonometry. In Precalculus, we approach trigonometry by first introducing angles and the unit circle, as opposed to the right triangle approach more commonly used in College Algebra and Trigonometry courses. Chapter 5: Trigonometric Functions Chapter 6: Periodic Functions Chapter 7: Trigonometric Identities and Equations Chapter 8: Further Applications of Trigonometry Chapters 9-12 present some advanced Precalculus topics that build on topics introduced in chapters 1-8. Most Precalculus syllabi include some of the topics in these chapters, but few include all. Instructors can select material as needed from this group of chapters, since they are not cumulative. Chapter 9: Systems of Equations and Inequalities Chapter 10: Analytic Geometry Chapter 11: Sequences, Probability and Counting Theory Chapter 12: Introduction to Calculus

Materials Selection in Mechanical Design Cambridge University Press

Adaptive filtering is a topic of immense practical and theoretical value, having applications in areas ranging from digital and wireless communications to biomedical systems. This book enables readers to gain a gradual and solid introduction to the subject, its applications to a variety of topical problems, existing limitations, and extensions of current theories. The book consists of eleven parts?each part containing a series of focused lectures and ending with bibliographic comments, problems, and computer projects with MATLAB solutions.

Computer Graphics

This open access book is the proceedings of the International Federation for IT and Travel & Tourism (IFITT) ' s 28th Annual International eTourism Conference, which assembles the latest research presented at the ENTER21@yourplace virtual conference January 19 – 22, 2021. This book advances the current knowledge base of information and communication technologies and tourism in the areas of social media and sharing economy, technology including AI-driven technologies, research related to destination management and innovations, COVID-19 repercussions, and others. Readers will find a wealth of state-of-the-art insights, ideas, and case studies on how information and communication technologies can be applied in travel and tourism as we encounter new opportunities and challenges in an unpredictable world.

Spectral Geometry

This volume is the first in theAdvances in Archaeological and Museum Science series sponsored by the Society for Archaeological Sciences. The purpose of this biennial series is to provide summaries of advances in closely defined topics in archaeometry, archaeological science, environmental archaeology, preservation technology and museum conservation. The Society for Archaeological Sciences (SAS) exists to encourage interdisci plinary collaboration between archaeologists and colleagues in the natural and physical sciences. SAS members are drawn from many disciplinary fields. However, they all share a common belief that physical science techniques and methods constitute an essential component of archaeological field and laboratory studies. The General Editors wish to express their appreciation to Renee S. Kra and Frances D. Moskovitz of Radiocarbon for their special expertise and assistance in the production of this volume. We also appreciate the contribution of the two reviewers for their excellent comments and suggestions. The General Editor responsible for undertaking the development of this volume was R. E. Taylor.

Geometry in History

A thorough and definitive book that fully addresses traditional and modern-day topics of nonparametric statistics This book presents a practical approach to nonparametric statistical analysis and provides comprehensive coverage of both established and newly developed methods. With the use of MATLAB, the authors present information on theorems and rank tests in an applied fashion, with an emphasis on modern methods in regression and curve fitting, bootstrap confidence intervals, splines, wavelets, empirical likelihood, and goodness-of-fit testing. Nonparametric Statistics with Applications to Science and Engineering begins with succinct coverage of basic results for order statistics, methods of categorical data analysis, nonparametric regression, and curve fitting methods. The authors then focus on nonparametric procedures that are becoming more relevant to engineering researchers and practitioners. The important fundamental materials needed to effectively learn and apply the discussed methods are also provided throughout the book. Complete with exercise sets, chapter reviews, and a related Web site that features downloadable MATLAB applications, this book is an essential textbook for graduate courses in engineering and the physical sciences and also serves as a valuable reference for researchers who seek a more comprehensive understanding of modern nonparametric statistical methods.

Partial Differential Equations and the Finite Element Method

High school algebra, grades 9-12.

Nelson Science Connections 10

The booming computer games and animated movie industries continue to drive the graphics community's seemingly insatiable search for increased realism, believability, ad speed. To achieve the quality expected by audiences of today's games and movies, programmers need to understand and implement physics-based animation. To provide this understanding, this book is written to teach students and practitioners and theory behind the mathematical models and techniques required for physics-based animation. It does not teach the basic principles of animation, but rather how to transform theoretical techniques into practical skills. It details how the mathematical models are derived from physical and mathematical principles, and explains how these mathematical models are

solved in an efficient, robust, and stable manner with a computer. This impressive and comprehensive volume covers all the issues involved in physics-based animation, including collision detection, geometry, mechanics, differential equations, matrices, quaternions, and more. There is excellent coverage of collision detection algorithms and a detailed overview of a physics system. In addition, numerous examples are provided along with detailed pseudo code for most of the algorithms. This book is ideal for students of animation, researchers in the field, and professionals working in the games and movie industries. Topics Covered: * The Kinematics: Articulated Figures, Forward and Inverse Kinematics, Motion Interpolation * Multibody Animation: Particle Systems, Continuum Models with Finite Differences, the Finite Element Method, Computational Fluid Dynamics * Collision Detection: Broad and Narrow Phase Collision Detection, Contact Determination, Bounding Volume Hierarchies, Feature-and Volume-Based Algorithms