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Today, switched reluctance machines (SRMs) play an increasingly important role in various sectors due to advantages such as robustness, simplicity of construction, low cost, insensitivity to high temperatures, and high fault tolerance. They are frequently used in fields such as aeronautics, electric and hybrid vehicles, and wind power generation. This book is a comprehensive resource on the design, modeling, and control of SRMs with methods that demonstrate their good performance as motors and generators.

Dieses übersichtliche und handliche Nachschlagewerk hilft Konstrukteuren und Einkäufern von mechanischen Verbindungselementen sicherzustellen, dass nach dem aktuellen Stand der europäischen und internationalen Normung gehandelt wird. Anbieter können bei der Vertragsprüfung auf Grundlage dieses Tabellenwerkes die Richtigkeit der Bestellung überprüfen. Die dritte Auflage wurde gründlich überarbeitet und erweitert. Der zweisprachige Aufbau (deutsch/englisch) erleichtert die Absprache auf internationaler Ebene.

Both Western and Chinese intellectuals have long derided filial piety tales as an absurd and grotesque variety of children's literature. *Selfless Offspring* offers a fresh perspective on the genre, revealing the rich historical worth of these stories by examining them in their original context: the tumultuous and politically fragmented early medieval era (A.D. 100–600). At a time when no Confucian virtue was more prized than filial piety, adults were moved and inspired by tales of filial children. The emotional impact of even the most outlandish actions portrayed in the stories was profound, a measure of the directness with which they spoke to major concerns of the early medieval Chinese elite. In a period of weak central government and powerful local clans, the key to preserving a household's privileged status was maintaining a cohesive extended family. Keith Knapp begins this far-ranging and persuasive study by describing two related historical trends that account for the narrative's popularity: the growth of extended families and the rapid incursion of Confucianism among China's learned elite. Extended families were better at maintaining their status and power, so patriarchs found it expedient to embrace Confucianism to keep their large, fragile households intact. Knapp then focuses on the filial piety stories themselves—their structure, historicity, origin, function, and transmission—and argues that most stem from the oral culture of these elite extended families. After examining collections of filial piety tales, known as *Accounts of Filial Children*, he shifts from text to motif, exploring the most common theme: the "reverent care" and mourning of parents. In the final chapter, Knapp looks at the relative burden that filiality placed on men and women and concludes that, although women largely performed the same filial acts as men, they had to go to greater extremes to prove their sincerity.

The main objective of this work is to significantly deepen the understanding of the material and the structural behaviour of continuous-discontinuous SMC composites, following a holistic approach to investigate microscopic aspects, macroscopic mechanical behaviour as well as failure evolution at the coupon, structure and component level. In addition, criteria to evaluate the effect of hybridisation are introduced and modelling approaches are presented and discussed.

Innovative and conceptual uses of photography within a highly developed Soviet dissident culture are explored in this examination of photography's place in late Soviet unofficial art. Simultaneous.

The *Newnes Mechanical Engineer's Pocket Book* is a comprehensive collection of data for mechanical engineers and students of mechanical engineering. Bringing together the data and information that is required to-hand when designing, making or repairing mechanical devices and systems, it has been revised to keep pace with changes in technology and standards. The *Pocket Book* emphasises current engineering practice and is supported by clear accounts of the fundamental principles of mechanical engineering. Key features include the latest BSI engineering data; focus on engineering design issues; enhanced coverage of roller chain drives, pneumatic and hydraulic systems; and expanded and more accessible detail on statics, dynamics and mathematics. * Over 300 pages of new material, including the latest standards information from BSI * Exhaustive collection of data for mechanical engineers and students of mechanical engineering * Unique emphasis on engineering design, theory, materials and properties

This book gathers selected research articles from the International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS 2019), held at the National Institute of Technology, Rourkela, India. The book discusses latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among others. The contents of this book are useful for academics as well as professionals working in industrial design, mechatronics, robotics, and automation.

This book examines Tangut translations of secular Chinese texts excavated from the ruins of Khara-khoto. After providing an overview of Tangut history and an introduction to the emergence of the field of Tangut studies, it presents four case studies grouped around different themes. A central concern of the book is the phenomenon of Tangut appropriation of Chinese written culture through translation and the reasons behind this.

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.

Fasteners, Threads, Threaded components, Surface defects, Surface properties, Bolts, Screws (bolts), Studs (fasteners), Hexagonal-head fasteners, Round-head fasteners, Socket-head fasteners, Non-destructive testing, Destructive testing, Cracking, Fracture, Defects

The classic foundation work developed by Sally Ryan, COTA, ROH, has been completely revised and updated to reflect current healthcare trends. The reformulation of Ryan's Occupational Therapy Assistant: Principles, Practice Issues and Techniques, Third Edition includes occupation-based case studies that highlight the didactic material presented in each chapter, along with an updated style of information. Four sections make up the new integrated text. The first section looks at important foundation concepts such as history, uniform technology, and the occupational therapy process. The second section introduces readers to people who are experiencing the challenges of disabilities. The chapters provide general information about the disabilities, as well as essential vocabulary and key concepts. The third section provides information on the "doing" of occupational therapy. Foundation treatment techniques are introduced so readers can master basic skills and continue to research current practice. Lastly, the fourth section focuses on the management aspects of an OTA's professional life. How-to information, as well as professional development, is the focus of this section.

This manual is for designers, developers, builders, and others who wish to build elevated residential structures in flood-prone areas prudently. Contents: Environmental and Regulatory Factors Site Analysis and Design Architectural Design Examples Design and Construction Guidelines Cost Analysis Resource Materials

This open access book explores the formation and socio-spatial trajectories of large housing estates in Europe. Are these estates clustered or scattered? Which social groups originally had access to residential space in housing estates? What is the size, scale and geography of housing estates, their architectural and built environment composition, services and neighbourhood amenities, and metropolitan connectivity? How do housing estates contribute to the urban mosaic of neighborhoods by ethnic and socio-economic status? What types of policies and planning initiatives have been implemented in order to prevent the social downgrading of housing estates? The collection of chapters in this book addresses these questions from a new perspective previously unexplored in scholarly literature. The social aspects of housing estates are thoroughly investigated (including socio-demographic and economic characteristics of current and past inhabitants; ethnicity and segregation patterns; population dynamics; etc.), and the physical composition of housing estates is described in significant detail (including building materials; building form; architectural and landscape design; built environment characteristics; etc.). This book is timely because the recent global economic crisis and Europe's immigration crisis demand a thorough investigation of the role large housing estates play in poverty and ethnic concentration. Through case studies of housing estates in 14 European centers, the book also identifies policy measures that have been used to address challenges in housing estates throughout Europe.

Vols. for 1970-71 includes manufacturers' catalogs.

FastenersBeuth Verlag

First published in Germany in 1929, *The End and the Beginning* is a lively personal memoir of a vanished world and of a rebellious, high-spirited young woman's struggle to achieve independence. Born in 1883 into a distinguished and wealthy aristocratic family of the old Austro-Hungarian Empire, Hermynia Zur Muhlen spent much of her childhood travelling in Europe and North Africa with her diplomat father. After five years on her German husband's estate in czarist Russia she broke with both her family and her husband and set out on a precarious career as a professional writer committed to socialism. Besides translating many leading contemporary authors, notably Upton Sinclair, into German, she herself published an impressive number of politically engaged novels, detective stories, short stories, and children's fairy tales. Because of her outspoken opposition to National Socialism, she had to flee her native Austria in 1938 and seek refuge in England, where she died, virtually penniless, in 1951. This revised and corrected translation of Zur Muhlen's memoir - with extensive notes and an essay on the author by Lionel Gossman - will appeal especially to readers interested in women's history, the Central European aristocratic world that came to an end with the First World War, and the culture and politics of the late nineteenth and early twentieth centuries.

Black Mama Saying Blank Journal/ Notebook Add To Cart Now Product Description: 6x9 119 pages Uniquely designed matte cover Heavy Paper Ideas On How To Use This Planner: Girlfriend/ Boyfriend Gift Journal for 2020 Memory Keepsake Book Reflections and Memories Notebook Birthday Present

"This book provides a comprehensive treatment of the principles of design and means for realization of passive vibration isolation systems for real life objects. A special emphasis is given to effective techniques and methods that are not yet widely used in the practice of vibration isolation in industry." "The book is written with practitioners in mind and many of the problems addressed and the solutions presented are relevant not only to the isolation of stationary sensitive equipment (the main thrust of the book), but also to civil engineering and transport applications." --BOOK JACKET.

Dubbed by his fellow Futurists the "King of Time," Velimir Khlebnikov (1885-1922) spent his entire brief life searching for a new poetic language to express his convictions about the rhythm of history, the correspondence between human behavior and the "language of the stars." The result was a vast body of poetry and prose that has been called hermetic, incomprehensible, even deranged. Of all this tragic generation of Russian poets (including Blok, Esenin, and Mayakovsky), Khlebnikov has been perhaps the most praised and the more censured. This first volume of the *Collected Works*, an edition sponsored by the Dia Art Foundation, will do much to establish the counterimage of Khlebnikov as an honest, serious writer. The 117 letters published here for the first time in English reveal an ebullient, humane, impractical, but deliberate working artist. We read of the continuing involvement with his family throughout his vagabond life (pleas to his smartest sister, Vera, to break out of the mold, pleas to his scholarly father not to condemn and to send a warm overcoat); the naive pleasure he took in being applauded by other artists; his insistence that a young girl's simple verses be included in one of the typically outrageous Futurist publications of the time; his jealous fury at the appearance in Moscow of the Italian Futurist Marinetti; a first draft of his famous zoo poem ("O Garden of Animals!"); his seriocomic but ultimately shattering efforts to be released from army service; his inexhaustibly courageous confrontation with his own disease and excruciating poverty; and always his deadly earnest attempt to make sense of numbers, language, suffering, politics, and the exigencies of publication. The theoretical writings presented here are even more important than the letters to an understanding of Khlebnikov's creative output. In the scientific articles written before 1910, we discern foreshadowings of major patterns of later poetic work. In the pan-Slavic proclamations of 1908-1914, we find explicit connections between cultural roots and linguistic ramifications. In the semantic excursions beginning in 1915, we can see Khlebnikov's experiments with consonants, nouns, and definitions spelled out in accessible, if arid, form. The essays of 1916-1922 take us into the future of Planet Earth, visions of universal order and accomplishment that no longer seem so farfetched but indeed resonate for modern readers.

The essential health behavior text, updated with the latest theories, research, and issues *Health Behavior: Theory, Research and Practice* provides a thorough introduction to understanding and changing health behavior, core tenets of the public health role. Covering theory, applications, and research, this comprehensive book has become the gold standard of health behavior texts. This new fifth edition has been updated to reflect the most recent changes in the public health field with a focus on health behavior, including coverage of the intersection of health and community, culture, and communication, with detailed explanations of both established and emerging theories. Offering perspective applicable at the individual, interpersonal, group, and community levels, this essential guide provides the most complete coverage of the field to give public health students and practitioners an authoritative reference for both the theoretical and practical aspects of

healthbehavior. A deep understanding of human behaviors is essential foreffective public health and health care management. This guideprovides the most complete, up-to-date information in the field, to give you a real-world understanding and the background knowledge to apply it successfully. Learn how e-health and social media factor into healthcommunication Explore the link between culture and health, and the importanceof community Get up to date on emerging theories of health behavior andtheir applications Examine the push toward evidence-based interventions, andglobal applications Written and edited by the leading health and social behaviortheorists and researchers, Health Behavior: Theory, Research andPractice provides the information and real-world perspectivethat builds a solid understanding of how to analyze and improvehealth behaviors and health.

Martin's Physical Pharmacy and Pharmaceutical Sciences is considered the most comprehensive text available on the application of the physical, chemical and biological principles in the pharmaceutical sciences. It helps students, teachers, researchers, and industrial pharmaceutical scientists use elements of biology, physics, and chemistry in their work and study. Since the first edition was published in 1960, the text has been and continues to be a required text for the core courses of Pharmaceutics, Drug Delivery, and Physical Pharmacy. The Sixth Edition features expanded content on drug delivery, solid oral dosage forms, pharmaceutical polymers and pharmaceutical biotechnology, and updated sections to cover advances in nanotechnology.

Schraubenverbindungen zählen in vielen Bereichen der industriellen Montage zu den am häufigsten eingesetzten Füge-technologien. Da die Anforderungen an Schraubenverbindungen ständig steigen, sollten Ingenieure und Techniker von der Konstruktion bis zur Endmontage und Erprobung mit den technisch-physikalischen Potenzialen der Verbindungen vertraut sein: Dieses Tabellenbuch bietet eine übersichtliche Zusammenstellung der wesentlichen Kennziffern für Schrauben, Muttern und Zubehör. Es enthält Auszüge aus den wichtigsten DIN-, DIN-EN- sowie DIN-EN-ISO-Normen, die den Bereich von 1,6 mm bis 39 mm Gewindenenddurchmesser abdecken. Die Auszüge wurden teilweise redaktionell bearbeitet und aktualisiert. Redaktionelle Hinweise der Verfasser sind jeweils kursiv dargestellt. Damit erhält der Nutzer ein praxisgerecht aufbereitetes Nachschlagewerk auf dem aktuellen Stand der Technik.

I see a polar bear. The polar bear is white. Beginning readers can learn all about polar bears in this short book in the I See Animals Series. With less than 20 unique words, kids can learn about interesting animals while building their reading fluency. Each I See Animals book uses simple sentences, sight words, and vibrant photos to help even the earliest readers delve into a nonfiction text. The books all contain a note to parents and caregivers with tips for helping kids learn to read. A Word list and post-reading activities are also included in every I See Animals book. These books are all Guided Reading Level C.

This book contains selected papers from the First International Conference on the Ontology of Spacetime. Its fourteen chapters address two main questions: first, what is the current status of the substantialism/relationalism debate, and second, what about the prospects of presentism and becoming within present-day physics and its philosophy? The overall tenor of the four chapters of the book's first part is that the prospects of spacetime substantialism are bleak, although different possible positions remain with respect to the ontological status of spacetime. Part II and Part III of the book are devoted to presentism, eternalism, and becoming, from two different perspectives. In the six chapters of Part II it is argued, in different ways, that relativity theory does not have essential consequences for these issues. It certainly is true that the structure of time is different, according to relativity theory, from the one in classical theory. But that does not mean that a decision is forced between presentism and eternalism, or that becoming has proved to be an impossible concept. It may even be asked whether presentism and eternalism really offer different ontological perspectives at all. The writers of the last four chapters, in Part III, disagree. They argue that relativity theory is incompatible with becoming and presentism. Several of them come up with proposals to go beyond relativity, in order to restore the prospects of presentism. · Space and time in present-day physics and philosophy · Introduction from scratch of the debates surrounding time · Broad spectrum of approaches, coherently represented

Piping and Pipeline Calculations Manual, Second Edition provides engineers and designers with a quick reference guide to calculations, codes, and standards applicable to piping systems. The book considers in one handy reference the multitude of pipes, flanges, supports, gaskets, bolts, valves, strainers, flexibles, and expansion joints that make up these often complex systems. It uses hundreds of calculations and examples based on the author's 40 years of experiences as both an engineer and instructor. Each example demonstrates how the code and standard has been correctly and incorrectly applied. Aside from advising on the intent of codes and standards, the book provides advice on compliance. Readers will come away with a clear understanding of how piping systems fail and what the code requires the designer, manufacturer, fabricator, supplier, erector, examiner, inspector, and owner to do to prevent such failures. The book enhances participants' understanding and application of the spirit of the code or standard and form a plan for compliance. The book covers American Water Works Association standards where they are applicable. Updates to major codes and standards such as ASME B31.1 and B31.12 New methods for calculating stress intensification factor (SIF) and seismic activities Risk-based analysis based on API 579, and B31-G Covers the Pipeline Safety Act and the creation of PhMSA

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