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**This book provides a series of compelling evidence that shows that humans have innate fear of snakes. Building on the previous studies on the Snake Detection Theory (SDT), the author presents a summary of psychological and neuropsychological experiments to explain the fear of snakes in humans and primates. Readers will come to understand why and how we are afraid of snakes from an evolutionary perspective. The first half of the book discusses the history of psychological behaviorism and neobehaviorism. The latter half of the book consists mainly of the experimental studies performed by the author with a focus on three key items: First, compared with other animals, snakes especially draw the attention of primates and humans. Second, the ability of primates and humans to recognize snakes with particular efficiency. Third, processing mechanisms within the brain for snake detection is discussed from a new viewpoint. The book offers a unique resource for all primatologists, psychologists, neuroscientists, anthropologists, herpetologists, and biologists who are interested in the evolution of visual and cognitive systems, mechanisms of fear, snakes or primates. In the Guide to the Software Engineering Body of Knowledge (SWEBOK(R) Guide), the IEEE Computer Society establishes a baseline for the body of knowledge for the field of software engineering, and the work supports the Society's responsibility to promote the advancement of both theory and practice in this**

**field. It should be noted that the Guide does not purport to define the body of knowledge but rather to serve as a compendium and guide to the knowledge that has been developing and evolving over the past four decades. Now in Version 3.0, the Guide's 15 knowledge areas summarize generally accepted topics and list references for detailed information. The editors for Version 3.0 of the SWEBOK(R) Guide are Pierre Bourque (Ecole de technologie superieure (ETS), Universite du Quebec) and Richard E. (Dick) Fairley (Software and Systems Engineering Associates (S2EA)). This volume contains the refereed and revised papers of the Fourth International Conference on Design Computing and Cognition (DCC'10), held in Stuttgart, Germany. The material in this book represents the state-of-the-art research and developments in design computing and design cognition. The papers are grouped under the following nine headings, describing both advances in theory and application and demonstrating the depth and breadth of design computing and design cognition: Design Cognition; Framework Models in Design; Design Creativity; Lines, Planes, Shape and Space in Design; Decision-Making Processes in Design; Knowledge and Learning in Design; Using Design Cognition; Collaborative/Collective Design; and Design Generation. This book is of particular interest to researchers, developers and users of advanced computation in design across all disciplines and to those who need to gain better understanding of designing. This text provides an introduction to the design tools used in engineering design. It focuses on the first two steps of the design process: determination of need/problem clarification and conceptualization. The book introduces readers to a broad range of important design topics. It provides numerous cases that illustrate both successes and failures in engineering design; qualitative presentation of engineering practices are easily understood by readers with little technical knowledge, and analytical techniques are given that allow the development and evaluation of proposed engineering solutions. Coverage includes: an overview of engineering design, needs assessment, structuring the search for the problem, structuring the search for**

**a solution (design goals and specifications), acquiring and applying technical knowledge, abstraction and modeling, synthesis, ethics and product liability issues, and hazards analysis and failure analysis. An excellent handbook for design engineers. This new edition of J. E. Gordon's classic introduction to the properties of materials used in engineering answers some fundamental and fascinating questions about how the material world around us functions. In particular, Gordon focuses on so-called strong materials, such as metals, wood, ceramics, glass, and bone. For each material in question, Gordon explains the unique physical and chemical basis for its inherent structural qualities in irrepressibly fresh and simple terms. He also shows how an in-depth understanding of these materials' intrinsic strengths (and weaknesses) guides our engineering choices, allowing us to build the structures that support our modern society. Philip Ball's new introduction describes Gordon's career and the impact of his innovations in materials research, while also discussing how the field has evolved since Gordon wrote this enduring example of first-rate scientific communication. A world list of books in the English language. From simple cases such as hook and latch attachments found in Velcro to articulated-wing flying vehicles, biology often has been used to inspire many creative design ideas. The scientific challenge now is to transform the paradigm into a repeatable and scalable methodology. Biologically Inspired Design explores computational techniques and tools that can help integrate the method into design practice. With an inspiring foreword from Janine Benyus, Biologically Inspired Design contains a dozen chapters written by some of the leading scholars in the transdisciplinary field of bioinspired design, such as Frank Fish, Julian Vincent and Jeannette Yen from biology, and Amarek Chakrabarti, Satyandra Gupta and Li Shu from engineering. Based in part on discussions at two workshops sponsored by the United States National Science Foundation, this volume introduces and develops several methods and tools for bioinspired design including: Information-processing theories, Natural language techniques, Knowledge-based tools, and**

**Functional approaches and Pedagogical techniques. By exploring these fundamental theories, techniques and tools for supporting biologically inspired design, this volume provides a comprehensive resource for design practitioners wishing to explore the paradigm, an invaluable guide to design educators interested in teaching the method, and a preliminary reading for design researchers wanting to investigate bioinspired design. ICSSD 2002 is the second in the series of International Conferences on Structural Stability and Dynamics, which provides a forum for the exchange of ideas and experiences in structural stability and dynamics among academics, engineers, scientists and applied mathematicians. Held in the modern and vibrant city of Singapore, ICSSD 2002 provides a peep at the areas which experts on structural stability and dynamics will be occupied with in the near future. From the technical sessions, it is evident that well-known structural stability and dynamic theories and the computational tools have evolved to an even more advanced stage. Many delegates from diverse lands have contributed to the ICSSD 2002 proceedings, along with the participation of colleagues from the First Asian Workshop on Meshfree Methods and the International Workshop on Recent Advances in Experiments and Computations on Modeling of Heterogeneous Systems. Forming a valuable source for future reference, the proceedings contain 153 papers ? including 3 keynote papers and 23 invited papers ? contributed by authors from all over the world who are working in advanced multi-disciplinary areas of research in engineering. All these papers are peer-reviewed, with excellent quality, and cover the topics of structural stability, structural dynamics, computational methods, wave propagation, nonlinear analysis, failure analysis, inverse problems, non-destructive evaluation, smart materials and structures, vibration control and seismic responses. The major features of the book are summarized as follows: a total of 153 papers are included with many of them presenting fresh ideas and new areas of research; all papers have been peer-reviewed and are grouped into sections for easy reference; wide coverage of research areas is provided and yet there is good linkage with the central topic of**

**structural stability and dynamics; the methods discussed include those that are theoretical, analytical, computational, artificial, evolutionary and experimental; the applications range from civil to mechanical to geo-mechanical engineering, and even to bioengineering. Annotation This proceedings of the July 2002 conference presents new developments in modeling tools for rendering abstract concepts. The 116 papers are arranged into sessions, such as collaborative information visualization environments, animation, curves, the semantic web, and applications in geography and medicine. Topics include a visual query language for large spatial databases, cooperative robot teleoperation through virtual reality interfaces, visualizing temporal features in large-scale microarray time series data, and using bibliographic maps to analyze term distribution in scientific papers. The CD-ROM is an electronic version of the book. No subject index. Annotation copyrighted by Book News, Inc., Portland, OR. This book is about the process of design and the skills that individuals should develop in order to execute that process. Its focus is on explaining the engineering design process but the authors have also tried to provide an experiential resource. In this regard the book provides the reader with guidance on how to use a variety of tools and techniques that support collaborative design efforts. Readers gain a clear understanding of engineering design as ENGINEERING DESIGN PROCESS, 3E outlines the process into five basic stages -- requirements, product concept, solution concept, embodiment design and detailed design. Designers discover how these five stages can be seamlessly integrated. The book illustrates how the design methods can work together coherently, while the book's supporting exercises and labs help learners navigate the design process. The text leads the beginner designer from the basics of design with very simple tasks -- the first lab involves designing a sandwich -- all the way through more complex design needs. This effective approach to the design model equips learners with the skills to apply engineering design concepts both to conventional engineering problems as well as other design problems. Important Notice: Media content referenced**

within the product description or the product text may not be available in the ebook version. A component will not be reliable unless it is designed with required reliability. Reliability-Based Mechanical Design uses the reliability to link all design parameters of a component together to form a limit state function for mechanical design. This design methodology uses the reliability to replace the factor of safety as a measure of the safe status of a component. The goal of this methodology is to design a mechanical component with required reliability and at the same time, quantitatively indicates the failure percentage of the component. Reliability-Based Mechanical Design consists of two separate books: Volume 1: Component under Static Load, and Volume 2: Component under Cyclic Load and Dimension Design with Required Reliability. This book is Reliability-Based Mechanical Design, Volume 1: Component under Static Load. It begins with a brief discussion on the engineering design process and the fundamental reliability mathematics. Then, the book presents several computational methods for calculating the reliability of a component under loads when its limit state function is established. Finally, the book presents how to establish the limit state functions of a component under static load and furthermore how to calculate the reliability of typical components under simple typical static load and combined static loads. Now, we do know the reliability of a component under static load and can quantitatively specify the failure percentage of a component under static load. The book presents many examples for each topic and provides a wide selection of exercise problems at the end of each chapter. This book is written as a textbook for junior mechanical engineering students after they study the course of Mechanics of Materials. This book is also a good reference book for design engineers and presents design check methods in such sufficient detail that those methods are readily used in the design check of a component under static load. Creativity and Morality summarizes and integrates research on creativity used to achieve bad or immoral ends. The book includes the use of deception, novel ideas to commit wrongdoings across contexts, including in organizations, the



classroom and terrorism. Morality is discussed from an individual perspective and relative to broader sociocultural norms that allow people to believe actions are justified. Chapters explore this research from an interdisciplinary perspective, including from psychology, philosophy, media studies, aesthetics and ethics. Summarizes research on creativity used for immoral purposes Identifies individual and sociocultural perspectives on morality Explores creativity in business, education, design and criminal behavior Includes research from psychology, philosophy, ethics, and more Unique notebook for recording your passwords that is decorative and discrete at the same time! Alphabetical pages (6 pages for every 2 letters) with several blank pages for extra needs at the end of the notebook. IEEE SWEBOK V3.0

IEEE Guide to the SWEBOK Software Engineering Body of Knowledge V3.0

**SWEBOK** In Handbook to the Afterlife, two seasoned experts with decades of experience working with channeled material describe the stages that spirits go through, focusing on the details that these accounts have in common. Just as life itself has different stages of growth and development, so most accounts of the afterlife are consistent with the authors' view that dying and rebirth are also continuous processes. Beginning with the moment of death itself, progressing through different transitional stages, and ending with the return of spirits to the physical plane, authors Pamela Heath and Jon Klimo define the purposes and pitfalls of each stage. They look at the kinds of adjustment problems that occur in each phase, and how spirits can be helped to move forward. Questions of pain and emotional state at the time of death, karma, and reincarnation are sensitively addressed. The book includes practical techniques for opening up communication with those who have passed on to the other side. While of interest to anyone seeking a general overview of the subject, Handbook to the Afterlife is particularly useful for those dealing with spirits who have not moved on, such as ghosts. Helps engineering students apply engineering and design in the service of their community This book presents an

integrated systems approach to the evaluation, analysis, design, and maintenance of civil engineering systems. Addressing recent concerns about the world's aging civil infrastructure and its environmental impact, the author makes the case for why any civil infrastructure should be seen as part of a larger whole. He walks readers through all phases of a civil project, from feasibility assessment to construction to operations, explaining how to evaluate tasks and challenges at each phase using a holistic approach. Unique coverage of ethics, legal issues, and management is also included. A powerful and innovative argument that explores the complexity of the human relationship with material things, demonstrating how humans and societies are entrapped into the maintenance and sustaining of material worlds Argues that the interrelationship of humans and things is a defining characteristic of human history and culture Offers a nuanced argument that values the physical processes of things without succumbing to materialism Discusses historical and modern examples, using evolutionary theory to show how long-standing entanglements are irreversible and increase in scale and complexity over time Integrates aspects of a diverse array of contemporary theories in archaeology and related natural and biological sciences Provides a critical review of many of the key contemporary perspectives from materiality, material culture studies and phenomenology to evolutionary theory, behavioral archaeology, cognitive archaeology, human behavioral ecology, Actor Network Theory and complexity theory Introduces writing at a level that is most appropriate and useful for college students. Creativity pervades human life. It is the mark of individuality, the vehicle of self-expression, and the engine of progress in every human endeavor. It also raises a wealth of neglected and yet evocative philosophical questions. The Philosophy of Creativity takes up these questions and, in doing so, illustrates the value of interdisciplinary exchange. Over the last decade the notion of 'threshold concepts' has proved influential around the world as a powerful means of exploring and discussing the key points of transformation that students experience in their higher education courses and the

**'troublesome knowledge' that these often present. Service-learning is an exciting pedagogy and field of study, offering insight into how academic study and community engagement blend to create social change. In its most traditional conceptualization, servicelearning activities typically manifest within communities where outside individuals address a need. Service learning is purported to have a transforming effect on individual student perspectives by providing students the opportunity to interact with people and enter into situations that allow students to test their predisposition towards others. However, the literature on the impact of service-learning on participants' acceptance of diversity and development of open-mindedness reports mixed outcomes. The purpose of this book is to explore cultural tensions and dynamics within the field of service-learning. It is not meant to be an exhaustive review of the interplay between culture and service learning, but rather a starting point for an ongoing conversation about how this complex topic impacts the field. In 18 chapters, educators, students, and administrators investigate the cultural values of service-learning itself and the tensions created when this is at odds with the values of others within K-12 and higher education in the United States and abroad. Authors include community organization representatives, researchers, directors of offices of community engagement, university administrators, junior and senior faculty, and former service-learning undergraduate students. Submissions reflect a range of genres, including theoretical / conceptual pieces, position papers, case studies, and other traditional academic essays, challenging how students and community members are affected by the cultural tensions within service-learning engagement. Thoroughly classroom-tested and proven to be a valuable self-study companion, Linear Control System Analysis and Design: Sixth Edition provides an intensive overview of modern control theory and conventional control system design using in-depth explanations, diagrams, calculations, and tables. Keeping mathematics to a minimum, the book is designed with the undergraduate in mind, first building a foundation, then bridging the gap between control theory and its**

real-world application. Computer-aided design accuracy checks (CADAC) are used throughout the text to enhance computer literacy. Each CADAC uses fundamental concepts to ensure the viability of a computer solution. Completely updated and packed with student-friendly features, the sixth edition presents a range of updated examples using MATLAB®, as well as an appendix listing MATLAB functions for optimizing control system analysis and design. Over 75 percent of the problems presented in the previous edition have been revised or replaced. Many of us are concerned with the structures, systems and values that we meet on a day-to-day basis. We seem to be rushing headlong to a destination not of our choosing. How did we get here and what can we do about it? This book is the result of an exploration into the ideas of transformation. What does it mean to transform the way we live, to something that we value? In this book we take on the challenge of exploring a potential transformation in one professional field, that of engineering, as an example of how we might break free of common dysfunctional discourses and enter what we call a counter hegemonic 'Heterotopia' - a space or place where we might dream alternative futures. The text is a unique collaboration spanning the disciplines of engineering education, philosophy and social theory. Attachment between an infant and his or her parents is a major topic within developmental psychology. An increasing number of psychologists, evolutionary biologists and anthropologists are articulating their doubts that attachment theory in its present form is applicable worldwide, without, however, denying that the development of attachment is a universal need. This book brings together leading scholars from psychology, anthropology and related fields to reformulate attachment theory in order to fit the cultural realities of our world. Contributions are based on empirical research and observation in a variety of cultural contexts. They are complemented by careful evaluation and deconstruction of many of the underlying premises and assumptions of attachment theory and of conventional research on the role of infant-parent attachment in human development. The book creates a contextual cultural understanding of attachment that will provide

**the basis for a groundbreaking reconceptualization of attachment theory. "When nature inspires our architecture-not just how it looks but how buildings and communities actually function-we will have made great strides as a society. Biophilic Design provides us with tremendous insight into the 'why,' then builds us a road map for what is sure to be the next great design journey of our times."**

**-Rick Fedrizzi, President, CEO and Founding Chairman, U.S. Green Building Council "Having seen firsthand in my company the power of biomimicry to stimulate a wellspring of profitable innovation, I can say unequivocally that biophilic design is the real deal. Kellert, Heerwagen, and Mador have compiled the wisdom of world-renowned experts to produce this exquisite book; it is must reading for scientists, philosophers, engineers, architects and designers, and-most especially-business people. Anyone looking for the key to a new type of prosperity that respects the earth should start there."**

**-Ray C. Anderson, founder and Chair, Interface, Inc. The groundbreaking guide to the emerging practice of biophilic design This book offers a paradigm shift in how we design and build our buildings and our communities, one that recognizes that the positive experience of natural systems and processes in our buildings and constructed landscapes is critical to human health, performance, and well-being. Biophilic design is about humanity's place in nature and the natural world's place in human society, where mutuality, respect, and enriching relationships can and should exist at all levels and should emerge as the norm rather than the exception. Written for architects, landscape architects, planners, developers, environmental designers, as well as building owners, *Biophilic Design: The Theory, Science, and Practice of Bringing Buildings to Life* is a guide to the theory, science, and practice of biophilic design. Twenty-three original and timely essays by world-renowned scientists, designers, and practitioners, including Edward O. Wilson, Howard Frumkin, David Orr, Grant Hildebrand, Stephen Kieran, Tim Beatley, Jonathan Rose, Janine Benyus, Roger Ulrich, Bert Gregory, Robert Berkebile, William Browning, and Vivian Loftness, among others, address: \* The basic concepts of biophilia, its expression in the**

**built environment, and how biophilic design connects to human biology, evolution, and development. \* The science and benefits of biophilic design on human health, childhood development, healthcare, and more. \* The practice of biophilic design-how to implement biophilic design strategies to create buildings that connect people with nature and provide comfortable and productive places for people, in which they can live, work, and study. Biophilic design at any scale-from buildings to cities-begins with a few simple questions: How does the built environment affect the natural environment? How will nature affect human experience and aspiration? Most of all, how can we achieve sustained and reciprocal benefits between the two? This prescient, groundbreaking book provides the answers. Providing students with a commonsense approach to the solution of engineering problems and packed full of practical case studies to illustrate the role of the engineer, the type of work involved and the methodologies employed in engineering practice, this textbook is a comprehensive introduction to the scope and nature of engineering. It outlines a conceptual framework for undertaking engineering projects then provides a range of techniques and tools for solving the sorts of problems that commonly arise. Focusing in particular on civil engineering design, problem solving, and the range of techniques and tools it employs, the authors also explore: creativity and problem solving, social and environmental issues, management, communications and law, and ethics the planning, design, modelling and analysis phases and the implementation or construction phase. Designed specifically for introductory courses on undergraduate engineering programs, this extensively revised and extended second edition is an invaluable resource for all new engineering undergraduates as well as non-specialist readers who are seeking information on the nature of engineering work and how it is carried out. This book demonstrates how aesthetics, design elements, and visual literacy can be implemented in the library to enhance spaces, programs, services, instruction, and outreach so that your library will appeal to all users. • Clearly explains how to recognize,**

**understand, and interpret basic design techniques • Teaches librarians how to attract and target their efforts towards specific groups of library users • Outlines principles of good design in instruction programs, space planning and design tasks, outreach initiatives, and other library programs and activities • Offers easy-to-follow steps to good design for wayfinding, instruction, and library usage**

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