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This book brings together five topics on the application of Boolean functions. They are 1. Equivalence classes of Boolean functions: The number of n -variable functions is large, even for values as small as $n = 6$, and there has been much research on classifying functions. There are many classifications, each with their own distinct merit. 2. Boolean functions for cryptography: The process of encrypting/decrypting plaintext messages often depends on Boolean functions with specific properties. For example, highly nonlinear functions are valued because they are less susceptible to linear attacks. 3. Boolean differential calculus: An operation analogous to taking the derivative of a real-valued function offers important insight into the properties of Boolean functions. One can determine tests or susceptibility to hazards. 4. Reversible logic: Most logic functions are irreversible; it is impossible to reconstruct the input, given the output. However, Boolean functions that are reversible are necessary for quantum computing, and hold significant promise for low-power computing. 5. Data mining: The process of extracting subtle patterns from enormous amounts of data has benefited from the use of a graph-based representation of Boolean functions. This has use in surveillance, fraud detection, scientific discovery including bio-informatics, genetics, medicine, and education. Written by experts, these chapters present a tutorial view of new and emerging technologies in Boolean functions. Table of Contents: Equivalence Classes of Boolean Functions / Boolean Functions for Cryptography / Boolean Differential Calculus / Synthesis of Boolean Functions in Reversible Logic / Data Mining Using Binary Decision Diagrams

In *Psychology, Folklore, Creativity and the Human Dilemma*, the author explores the meaning of folklore and its usefulness in education and psychotherapy. The author's interest has expanded into other fields that challenge and question the limits of our everyday horizons, namely, into operas, plays, and humor, as well as into new approaches to the meaning of human existence explored by modern thinkers. These various fields often interact, explain, and enrich each other. The book aims for deepening the awareness of our ultimate human concerns, the meaning of authenticity, and the urgent need for radical, long-term commitments. The present volume focuses almost entirely on the role of folklore in expanding and enriching a person's horizons, on the challenges by modern writers in terms of the need to radically alter the paradigm of Western society that has brought the blessings of technology, led to a fragmentation of our psyche, and threatens the very essence of our subjectivity. Throughout the book there is both the hidden and the overt implication that simply liking, appreciating or agreeing with insightful ideas and suggestions presented by anyone are absolutely worthless, or may even be counterproductive, if the readers do not translate into changes and actions the ideas that are most meaningful to them, and if they do not do so in their family, social, political and spiritual life.

The purpose of this book is to be the premier resource for behavioural health clinicians who are considering adopting technology into their practice. Written by experts and policy makers in the field this book will be recognized as the gold standard. Other books currently in this field are extremely technical and are geared primarily to policy makers, researchers and informaticians. While this book will be a useful adjunct to that audience, it is primarily designed for the over .5 million behavioural health clinicians in the U.S. and the millions others around the world. Adoption of technology is slow in behavioural healthcare, and this book will enhance the adoption and utilization of various technologies in practice. I.T. vendors may also purchase this book for their customers.

The *Imagine It* series provides open-ended illustrations that allow children to use their imaginations and explore their own creativity. To

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complete each page, children simply read the instructions and let their imaginations do the rest! Each book in this series focuses on building creativity, reading, and critical-thinking skills.

This book presents topical research in the study of the psychology of motivation. Topics discussed include motivation in the field of tourism; new perspectives in the psychology and economics of donating; commercial weight-loss programs and motivation; motivation for creativity in design and architecture; cognitive and motivational factors for reading; motivation to learn, self-regulation and academic achievement and the implicit theories of intelligence, effort beliefs, and achievement goals as antecedents of learning motivation and engagement.

Master Joomla! hands-on, step-by-step, through easy, practical examples! Joomla! now powers tens of millions of websites of every size and type. But many beginners find it confusing, and most Joomla! books are too complex to help. Joomla! Explained is the solution. Top Joomla! trainer Stephen Burge teaches everything beginners need to know--and nothing they don't need to know! Joomla! Explained requires absolutely no experience with Joomla! content management, website construction, programming, scripting, or even HTML. Stephen Burge has taught thousands of beginners--and thousands more who've experimented with Joomla! but haven't mastered it yet. Nobody knows more about guiding Joomla! users up the learning curve--from confusion to results! You'll master Joomla! one easy step at a time, through a complete hands-on case study. Burge presents crystal-clear visuals, explanations, and analogies--all extensively tested with real Joomla! beginners.

This textbook on homology and cohomology theory is geared towards the beginning graduate student. Singular homology theory is developed systematically, avoiding all unnecessary definitions, terminology, and technical machinery. Wherever possible, the geometric motivation behind various algebraic concepts is emphasized. The only formal prerequisites are knowledge of the basic facts of abelian groups and point set topology. Singular Homology Theory is a continuation of the author's earlier book, Algebraic Topology: An Introduction, which presents such important supplementary material as the theory of the fundamental group and a thorough discussion of 2-dimensional manifolds. However, this earlier book is not a prerequisite for understanding Singular Homology Theory.

This book provides an in-depth overview of design and implementation of leakage reduction techniques. The focus is on applicability, technology dependencies, and scalability. The book mainly deals with circuit design but also addresses the interface between circuit and system level design on the one side and between circuit and physical design on the other side.

Rebecca Rusch is one of the great endurance athletes of our time. Known today as the Queen of Pain for her perseverance as a relentlessly fast runner, paddler, and mountain bike racer, Rusch was a normal kid from Chicago who abandoned a predictable life for one of adventure. In her new book Rusch to Glory: Adventure, Risk & Triumph on the Path Less Traveled, Rusch weaves her fascinating life's story among the exotic locales and extreme conditions that forged an extraordinary athlete from ordinary roots. Rusch has run the gauntlet of endurance sports over her career as a professional athlete-- climbing, adventure racing, whitewater rafting, cross-country skiing, and mountain biking--racking up world championships along the way. But while she might seem like just another superhuman playing out a fistful of aces, her empowering story proves that anyone can rise above self-doubt and find their true potential. First turning heads with her rock climbing and paddling skills, Rusch soon found herself spearheading adventure racing teams like Mark Burnett's Eco-Challenge series. As she fought her way through the jungles of Borneo, raced camels across Morocco, threaded the rugged Tian Shan mountains, and river-boarded the Grand Canyon in the dead of winter, she was forced to stare down her own demons. Through it all, Rusch continually redefined her limits, pushing deep into the pain cave and emerging ready for the next great challenge. At age 38, Rusch faced a tough decision: retire or reinvent

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herself yet again. Determined to go for broke, she shifted her focus to endurance mountain bike racing and rode straight into the record books at a moment when most athletes walk away. Rusch to Glory is more than an epic story of adventure; it is a testament to the rewards of hard work, determination, and resilience on the long road to personal and professional triumph.

This book describes clearly various research topics investigated for these 10 years in the Research Center of Advanced Structural and Functional Materials Design in Osaka University, Japan. Every chapter is aimed at understanding most advanced researches in materials science by describing its fundamentals and details as much as possible. Since both general explanations and cutting-edge commentaries are given for each topic in this book, it provides a lot of useful information for ordinary readers as well as materials scientists & engineers who wish to understand the future development in materials science fields of metals, alloys, ceramics, semiconductors etc. In particular, this book deals with special fusion area of structural and functional materials such as medical bone materials, of which contents are very unique features as materials science textbook.

Published since 1959, International Review of Neurobiology is a well-known series appealing to neuroscientists, clinicians, psychologists, physiologists, and pharmacologists. Led by an internationally renowned editorial board, this important serial publishes both eclectic volumes made up of timely reviews and thematic volumes that focus on recent progress in a specific area of neurobiology research. This volume reviews existing theories and current research surrounding the movement disorder Dyskinesia. Leading authors review state-of-the-art in their field of investigation and provide their views and perspectives for future research. Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered. All chapters include comprehensive background information and are written in a clear form that is also accessible to the non-specialist.

Photoshop CC is an outstanding image editor, but it can be pretty overwhelming. This book makes learning Photoshop as easy as possible by explaining the hows and whys in a friendly, conversational style. You'll unlock Photoshop's secrets, new goodies, and time-saving features, with expert tips and practical editing advice you can use every day. The important stuff you need to know: Learn your way around. Tour Photoshop's workspace and learn how to customize it. Unleash the magic. Use selections, layers, masks, and smart objects to safely edit images; automate common chores with actions. Perfect your photos. Learn to crop, resize, color-correct, retouch, combine, and prepare photos for print or online use. Master color. Drain, change, and add color, and even create digital makeup, partial-color effects, and duotones. Be artistic. Use filters effectively, create illustrations, paintings, artistic typography, animations, and videos. Go 3D. Create and edit 3D objects and send them off to a 3D-printing service from inside Photoshop. Export web graphics. Use Generator to instantly export and resize images—just by using layer names.

Ravi Roy and Carola Lage-Roy present a wealth of strategies for using homeopathic medicine to stay happy and healthy while traveling. A bestseller in its original German edition, *The Homeopathic Guide for Travelers* is equally useful for backpackers, business travelers, and even luxury vacationers. It provides all the preparation needed for a journey, whether a short outing, far-off holiday, or challenging trek. The homeopathic remedies profiled here—many of them effective even when taken last-minute—address everything from exhaustion to altitude change, from jet lag to climate shifts to the side effects of unfamiliar foods. Drawing from the latest research, the book describes which homeopathic medicines work best against infectious diseases, such as malaria, hepatitis, and Lyme disease, and details remedies for injuries sustained while backpacking, climbing, or diving. Roy

and Lage-Roy also explain how to treat stings and bites from poisonous animals and reactions from plants like poison ivy. An introductory chapter features a basic traveler's first-aid kit.

A child's guide through grief that is formed by the truths of our Catholic faith and by what bereavement professionals have found helpful. This book helps children ages 7 to 12 understand death, funeral rituals, the grieving process, and what to expect during the first year after the loss of a loved one. Schuler gives reassuring voice to a child's feelings of loss, and provides a safe space where hopes can be expressed and memories can be treasured.

The authority of Harrison's in a concise, carry-anywhere text Drawn from the eighteenth edition of Harrison's Principles of Internal Medicine, this handy reference covers key aspects of the diagnosis, clinical manifestations, and treatment of the major diseases that are likely to be encountered in medical practice. Presented in full color and completely updated to reflect all the major advances and clinical developments, Harrison's Manual of Medicine, 18e offers high-yield coverage of: Etiology and Epidemiology Clinically Relevant Pathophysiology Signs & Symptoms Differential Diagnosis Physical and Laboratory Findings Therapeutics Practice Guidelines Utilizing an effective mix of succinct text, bullet points, algorithms, and tables, Harrison's Manual of Medicine, 18e covers every area of clinical medicine – as only Harrison's can.

In 1960s inner city Boston, Stan Zuray had no future. As the Vietnam war took more and more of his friends, and many of those who returned sank further into drugs and despair, Stan looked for meaning and found nothing. His life's purpose lay thirty-three hundred miles northwest, deep in the Tozitna River Valley in the heart of Alaska's frozen interior. Deadly cold, famine, grizzly bears, and one unruly sled dog with a grudge kept Stan on the knife's edge between survival and death. Humbled by the power of nature, the Boston greaser who was destined for prison found a new life in the wild, where one mistake can prove fatal. This is the true story of Stan Zuray's incredible journey; the reformation of a man's heart and mind in the forbidding darkness of Alaska's endless winter.

Our CLEP study guides are different! The Information Systems and Computer Applications CLEP study guide TEACHES you everything that you need to know to pass the CLEP test. This study guide is more than just pages of sample test questions. Our easy to understand study guide will TEACH you the information. We've condensed what you need to know into a manageable book - one that will leave you completely prepared to tackle the test. This study guide includes sample test questions that will test your knowledge AND teach you new material. Your Information Systems and Computer Applications study guide also includes flashcards. Use these to memorize key concepts and terms. Anyone can take and pass a CLEP test. What are you waiting for? To survive in the increasingly competitive economic conditions of the contemporary world, manufacturing organizations are continually seeking ways of improving their market shares by becoming more effective and efficient and by producing goods of higher quality. It appears that advanced manufacturing technology (AMT) can provide at least some of the means of achieving these improvements.

Math! Encounters with High School Students Springer Science & Business Media Rusch to Glory Adventure, Risk &

Triumph on the Path Less TraveledVeloPress

"Judaism, Liberalism, and Political Theology provides the first broad encounter between modern Jewish thought and recent developments in political theology. In opposition to impetuous associations of Judaism and liberalism and charges that Judaism cannot engender a universal political order, the essays in this volume propose a new and richly detailed engagement between Judaism and the political. The vexed status of liberalism in Jewish thought and Judaism in political theology is interrogated with recourse to thinking from across the Continental tradition."--Page 4 of cover.

Composed over two millennia ago, the Yoga Sutras of Patanjali remains the philosophical thread that unites the ancient and current world of yoga. Yet, its many translations are underwhelming, lacking connection to reality and practicality. Innumerable forms and sects of yoga have come and gone in between. Obsessed with gaining special powers over mind and body, yoga's re-tellers have clouded its history in a mystical mist of fantastic claims. It is human nature to crave powers to radically change our lot in life. These layers of dazzle and glitter have over the centuries led us further away from yoga's spiritual core. The sutras' clear, logical, and practical path has been blurred and lost. Radically breaking with this mystical tradition, A. K. Aruna seeks to reclaim for us this fountainhead of yoga by retying the understanding of these sutras to the even more ancient source of spiritual knowledge and yoga—the Upanishads. The Upanishads eschewed limited pursuits in order to seek an ultimate goal that was not time-bound. In this still pure form of the yoga of seeking ultimate, timeless truth, the words of Patanjali become crystal clear and practical. Yoga shines in timeless relevance. A. K. Aruna's Patanjali Yoga Sutras: A Translation in the Light of Vedanta Scripture has brilliantly refocused the light on the Yoga Sutras. This is a companion, translation only, booklet to the Translation and Commentary version of the text by A. K. Aruna.

These days, more and more children are going through that rite of passage known as getting braces. Now they can chronicle the experience in this very hip, very cool, and very original journal. Created by bestselling author Dan Price, this beautifully designed guide is entirely hand-lettered and drawn, and captures every moment, from the first appointment to that blessed day when the orthodontist says "All done!" and finally removes the braces. It has space for before and after photographs, room to track orthodontist visits, "Fun Facts" pages, suggested "Books to Read," the dreaded "Forbidden Foods" list, and fun illustrations on "Troubleshooting" common problems with your braces. This is an all-around great gift!

An increased understanding of the developmental physiology, biochemistry, and molecular biology during early growth, maturation, ripening, and postharvest conditions has improved technologies to maintain the shelf life and quality of fruits, vegetables, and flowers. Postharvest Biology and Technology of Fruits, Vegetables, and Flowers provides a

comprehensive introduction to this subject, offering a firm grounding in the basic science and branching out into the technology and practical applications. An authoritative resource on the science and technology of the postharvest sector, this book surveys the body of knowledge with an emphasis on the recent advances in the field.

REA's Essentials provide quick and easy access to critical information in a variety of different fields, ranging from the most basic to the most advanced. As its name implies, these concise, comprehensive study guides summarize the essentials of the field covered. Essentials are helpful when preparing for exams, doing homework and will remain a lasting reference source for students, teachers, and professionals. Physics I includes vectors and scalars, one-dimensional motion, plane motion, dynamics of a particle, work and energy, conservation of energy, dynamics of systems of particles, rotational kinematics and dynamics, harmonic motion, sound waves, gravitation, equilibrium of rigid bodies, fluid statics and dynamics, temperature, heat and the first law of thermodynamics, kinetic theory of gases, and entropy and the second law of thermodynamics.

Graham Richards gives historical perspective to key issues in contemporary psychology such as psychology and women and psychology and race as well as more traditional topics like behaviourism and Gestalt psychology. --From publisher's description.

Think all Ham Radio study guides are the same? Think again! With easy to understand lessons and practice test questions designed to maximize your score, you'll be ready. You don't want to waste time - and money! - retaking an exam. You want to accelerate your education, not miss opportunities for starting your future career! Every year, thousands of people think that they are ready for the Ham Radio test but realize too late when they get their score back that they were not ready at all. They weren't incapable, and they certainly did their best, but they simply weren't studying the right way. There are a variety of methods to prepare for the Ham Radio test...and they get a variety of results. Trivium Test Prep's Ham Radio study guide provides the information, secrets, and confidence needed to get you the score you need - the first time around. Losing points on the Ham Radio exam can cost you precious time, money, and effort that you shouldn't have to spend. What is in the book? In our Ham Radio study guide, you get the most comprehensive review of all tested concepts. The subjects are easy to understand, and have fully-explained example questions to ensure that you master the material. Best of all, we show you how this information will be applied on the real exam; Three practice exams are included so that you can know, without a doubt, that you are prepared. Our study guide is streamlined and concept-driven so you get better results through more effective study time. Why spend days or even weeks reading through meaningless junk, trying to sort out the helpful information from the fluff? We give you everything you need to know in a concise, comprehensive, and effective package.

The only introductory text on the market today that explains the underlying physics and engineering applicable to all lasers Although lasers are becoming increasingly important in our high-tech environment, many of the technicians and engineers who install, operate, and maintain them have had little, if any, formal training in the field of electro-optics. This can result in less efficient usage of these important tools. Introduction to Laser Technology, Fourth Edition provides readers with a good understanding of what a laser is and what it can and cannot do. The book explains what types of laser to use for different purposes and how a laser can be modified to improve its performance in a given application. With a unique combination of clarity and technical depth, the book explains the characteristics and important applications of

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commercial lasers worldwide and discusses light and optics, the fundamental elements of lasers, and laser modification. In addition to new chapter-end problems, the Fourth Edition includes new and expanded chapter material on: Material and wavelength Diode Laser Arrays Quantum-cascade lasers Fiber lasers Thin-disk and slab lasers Ultrafast fiber lasers Raman lasers Quasi-phase matching Optically pumped semiconductor lasers Introduction to Laser Technology, Fourth Edition is an excellent book for students, technicians, engineers, and other professionals seeking a fuller, more formal introduction to the field of laser technology.

The PROFESSIONAL REVIEW GUIDE FOR THE CCS EXAMINATION, 2013 EDITION, is an essential, effective preparation tool for the American Health Information Management Association (AHIMA) Certified Coding Specialist (CCS) exam. This comprehensive learning package includes a reader-friendly, content-rich text, now featuring online interactive quizzing, accessible via Printed Access Code bound into the front cover of the book. An available WebTutor™ supplement adds versatile online course management tools, including exam content, flashcards, course objectives, class notes, and discussion questions. Thorough and up-to-date, this invaluable guide covers critical information to help students pass the exam and prepare for professional success, including material on current code sets and AHIMA standards; recent changes to ICD-9-CM, CPT, ICD-10-CM, and ICD-10-PCS; electronic medical records; HIPAA requirements; and relevant laws, standards, and procedures. In addition to mock exams modeled closely to actual AHIMA exams, the guide includes study tips, coding case studies, quizzes and activities linked to AHIMA competencies to help students hone their skills by assigning codes to diagnoses and procedures for a variety of patient settings. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Help your students be better biologists with the only book that provides dedicated additional practice for the central focus of Higher Human Biology for CfE. This book provides a wealth of further questions and practice material corresponding with each chapter of the core text, allowing students to practise applying their knowledge and skills. A Makes planning easier and saves time with material that is ideal for use either in classroom or as homework. A Gives students simple ways to improve and practice specific topics with questions clearly matched to each section of the accompanying Student's Book. A Develops skills effectively with tried and trusted material developed by a vastly experienced author team."

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