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Neuroimaging Dec 11 2021 **Neuroimaging, Part One**, a text from **The Handbook of Clinical Neurology** illustrates how neuroimaging is rapidly expanding its reach and applications in clinical neurology. It is an ideal resource for anyone interested in the study of the nervous system, and is useful to both beginners in various related fields and to specialists who want to update or refresh their knowledge base on neuroimaging. This first volume specifically covers a description of imaging techniques used in the adult brain, aiming to bring a comprehensive view of the field of neuroimaging to a varying audience. It brings broad coverage of the topic using many color images to illustrate key points. Contributions from leading global experts are collated, providing the broadest view of neuroimaging as it currently stands. For a number of neurological disorders, imaging is not only critical for diagnosis, but also for monitoring the effect of therapies, and the entire field is moving from curing diseases to preventing them. Most of the information contained in this volume reflects the newness of this approach, pointing to this new horizon in the

study of neurological disorders. Provides a relevant description of the technologies used in neuroimaging, including computed tomography (CT), magnetic resonance imaging (MRI), positron emission tomography (PET), and several others. Ideal resource for anyone studying the nervous system, from beginners to specialists interested in recent advances in neuroimaging of the adult brain. Discusses the application of imaging techniques to the study of brain and spinal cord disease and its use in various syndromes. Contains vibrant, colorful images to illustrate key points.

International Arbitration Checklists - Second Edition Mar 02 2021 Baker & McKenzie, has one of the world's largest and most successful international arbitration practices. This book, written by members of the International Dispute Resolution Practice Group of Baker & McKenzie and others, provides a practical, experience-based guide to international arbitration. Each chapter begins with a "checklist" of issues to be considered at each stage of arbitration. Topics include drafting arbitration clauses, commencement of the case, staying court proceedings, compelling arbitration, selection of the tribunal, provisional relief, conduct of hearings and enforcement of awards, among many others. Law and practice in each of the world's major arbitration centers is discussed. Appendices provide ready access to arbitration treaties, statutes and rules. This book will be a standard reference for in-house counsel and outside practitioners.

An Introduction to Zooarchaeology Feb 19 2020 This volume is a comprehensive, critical introduction to vertebrate zooarchaeology, the field that explores the history of human relations with animals from the Pliocene to the Industrial Revolution. The book is organized into five sections, each with an introduction, that leads the reader systematically through this swiftly expanding field. Section One presents a general introduction to zooarchaeology, key definitions, and an historical survey of the emergence of zooarchaeology in the Americas, Europe, Asia, and Africa, and introduces the conceptual approach taken in the book. This volume is designed to allow readers to integrate data from the book along with that acquired elsewhere within a coherent analytical framework. Most of its chapters take the form of critical "review articles," providing a portal into both the classic and current literature and contextualizing these with original commentary. Summaries of findings are enhanced by profuse illustrations by the author and others.

Presumed Incompetent Mar 22 2020 Presumed Incompetent is a pathbreaking account of the intersecting roles of race, gender, and class in the working lives of women faculty of color. Through personal narratives and qualitative empirical studies, more than 40 authors expose the daunting challenges faced by academic women of color as they navigate the often hostile terrain of higher education, including hiring, promotion,

tenure, and relations with students, colleagues, and administrators. The narratives are filled with wit, wisdom, and concrete recommendations, and provide a window into the struggles of professional women in a racially stratified but increasingly multicultural America.

Multicultural Perspectives In Social Work Practice with Families, 3rd Edition Aug 19 2022 Print+CourseSmart

Digital Image Processing, Global Edition Sep 20 2022 The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you will receive via email the code and instructions on how to access this product. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. For courses in Image Processing and Computer Vision. For years, Image Processing has been the foundational text for the study of digital image processing. The book is suited for students at the college senior and first-year graduate level with prior background in mathematical analysis, vectors, matrices, probability, statistics, linear systems, and computer programming. As in all earlier editions, the focus of this edition of the book is on fundamentals. The 4th Edition is based on an extensive survey of faculty, students, and independent readers in 5 institutions from 3 countries. Their feedback led to expanded or new coverage of topics such as deep learning and deep neural networks, including convolutional neural nets, the scale-invariant feature transform (SIFT), MERS, graph cuts, k-means clustering and superpixels, active contours (snakes and level sets), and each histogram matching. Major improvements were made in reorganising the material on image transforms into a more cohesive presentation, and in the discussion of spatial kernels and spatial filtering. Major revisions and additions were made to examples and homework exercises throughout the book.

Digital Image Processing Feb 25 2023 Digital Image Processing has been the leading textbook in its field for more than 20 years. As was the case with the 1977 and 1987 editions by Gonzalez and Wintz, and the 1992 edition by Gonzalez and Woods, the present edition was prepared with students and instructors in mind. The material is timely, highly readable, and illustrated with numerous examples of practical significance. All mainstream areas of image processing are covered, including a totally revised introduction and discussion of image fundamentals, image enhancement in the spatial and frequency domains, restoration, color image processing, wavelets, image compression, morphology,

segmentation, and image description. Coverage concludes with a discussion of the fundamentals of object recognition. Although the book is completely self-contained, a Companion Website (see inside front cover) provides additional support in the form of review material, answers to selected problems, laboratory project suggestions, and a score of other features. A supplementary instructor's manual is available to instructors who have adopted the book for classroom use. **New Features** *New chapters on wavelets, image morphology, and color image

***Digital Image Processing* Dec 23 2022** Introduce your students to image processing with the industry's most prized text For 40 years, Image Processing has been the foundational text for the study of digital image processing. The book is suited for students at the college senior and first-year graduate level with prior background in mathematical analysis, vectors, matrices, probability, statistics, linear systems, and computer programming. As in all earlier editions, the focus of this edition of the book is on fundamentals. The 4th Edition, which celebrates the book's 40th anniversary, is based on an extensive survey of faculty, students, and independent readers in 150 institutions from 30 countries. Their feedback led to expanded or new coverage of topics such as deep learning and deep neural networks, including convolutional neural nets, the scale-invariant feature transform (SIFT), maximally-stable extremal regions (MSERs), graph cuts, k-means clustering and superpixels, active contours (snakes and level sets), and exact histogram matching. Major improvements were made in reorganizing the material on image transforms into a more cohesive presentation, and in the discussion of spatial kernels and spatial filtering. Major revisions and additions were made to examples and homework exercises throughout the book. For the first time, we added MATLAB projects at the end of every chapter, and compiled support packages for you and your teacher containing, solutions, image databases, and sample code. The support materials for this title can be found at www.ImageProcessingPlace.com

Instructor's Manual for Digital Image Processing Feb 13 2022

Mexicanos, Third Edition Nov 22 2022 Responding to shifts in the political and economic experiences of Mexicans in America, this newly revised and expanded edition of Mexicanos provides a relevant and contemporary consideration of this vibrant community. Emerging from the ruins of Aztec civilization and from centuries of Spanish contact with indigenous people, Mexican culture followed the Spanish colonial frontier northward and put its distinctive mark on what became the southwestern United States. Shaped by their Indian and Spanish ancestors, deeply influenced by Catholicism, and often struggling to respond to political and economic precarity, Mexicans play an important role in US society even as the

dominant Anglo culture strives to assimilate them. With new maps, updated appendices, and a new chapter providing an up-to-date consideration of the immigration debate centered on Mexican communities in the US, this new edition of *Mexicanos* provides a thorough and balanced contribution to understanding Mexicans' history and their vital importance to 21st-century America.

Mechanical Behavior and Fracture of Engineering Materials Sep 08 2021
This book presents the theoretical concepts of stress and strain, as well as the strengthening and fracture mechanisms of engineering materials in an accessible level for non-expert readers, but without losing scientific rigor. This volume fills the gap between the specialized books on mechanical behavior, physical metallurgy and material science and engineering books on strength of materials, structural design and materials failure. Therefore it is intended for college students and practicing engineers that are learning for the first time the mechanical behavior and failure of engineering materials or wish to deepen their understanding on these topics. The book includes specific topics seldom covered in other books, such as: how to determine a state of stress, the relation between stress definition and mechanical design, or the theory behind the methods included in industrial standards to assess defects or to determine fatigue life. The emphasis is put into the link between scientific knowledge and practical applications, including solved problems of the main topics, such as stress and strain calculation. Mohr's Circle, yield criteria, fracture mechanics, fatigue and creep life prediction. The volume covers both the original findings in the field of mechanical behavior of engineering materials, and the most recent and widely accepted theories and techniques applied to this topic. At the beginning of some selected topics that by the author's judgement are transcendental for this field of study, the prime references are given, as well as a brief biographical semblance of those who were the pioneers or original contributors. Finally, the intention of this book is to be a textbook for undergraduate and graduate courses on Mechanical Behavior, Mechanical Metallurgy and Materials Science, as well as a consulting and/or training material for practicing engineers in industry that deal with mechanical design, materials selection, material processing, structural integrity assessment, and for researchers that incursion for the first time in the topics covered in this book.

Successful Scientific Writing Dec 31 2020 The detailed, practical, step-by-step advice in this user-friendly guide will help students and researchers to communicate their work more effectively through the written word. Covering all aspects of the writing process, this concise, accessible resource is critically acclaimed, well-structured, comprehensive, and entertaining. Self-help exercises and abundant examples from actual

typescripts draw on the authors' extensive experience working both as researchers and with them. Whilst retaining the user-friendly and pragmatic style of earlier editions, this third edition has been updated and broadened to incorporate such timely topics as guidelines for successful international publication, ethical and legal issues including plagiarism and falsified data, electronic publication, and text-based talks and poster presentations. With advice applicable to many writing contexts in the majority of scientific disciplines, this book is a powerful tool for improving individual skills and an eminently suitable text for classroom courses or seminars.

Computing Handbook, Third Edition Dec 19 2019 **Computing Handbook, Third Edition: Information Systems and Information Technology** demonstrates the richness and breadth of the IS and IT disciplines. The second volume of this popular handbook explores their close links to the practice of using, managing, and developing IT-based solutions to advance the goals of modern organizational environments. Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in-depth perspectives on the contributions of academic research to the practice of IS and IT development, use, and management Like the first volume, this second volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

The Story Luke Tells Jun 24 2020 Among all the writers of the New Testament, no one has been more undervalued than Luke. Not only are Luke's Gospel and Acts more extensive than all of Paul's epistles put together; Luke's particular slant on the story he tells also sets him apart. In this book Justo Gonzalez examines Luke's characteristic perspective and its relevance for

Through the Lens of Anthropology Oct 29 2020

Mexicanos, Second Edition May 16 2022 Newly revised and updated, **Mexicanos** tells the rich and vibrant story of Mexicans in the United States. Emerging from the ruins of Aztec civilization and from centuries of Spanish contact with indigenous people, Mexican culture followed the Spanish colonial frontier northward and put its distinctive mark on what became the southwestern United States. Shaped by their Indian and Spanish ancestors, deeply influenced by Catholicism, and tempered by an often difficult existence, Mexicans continue to play an important role in U.S. society, even

as the dominant Anglo culture strives to assimilate them. Thorough and balanced, *Mexicanos* makes a valuable contribution to the understanding of the Mexican population of the United States—a growing minority who are a vital presence in 21st-century America.

Harvest of Empire Apr 03 2021 A sweeping history of the Latino experience in the United States- thoroughly revised and updated. The first new edition in ten years of this important study of Latinos in U.S. history, *Harvest of Empire* spans five centuries—from the first New World colonies to the first decade of the new millennium. Latinos are now the largest minority group in the United States, and their impact on American popular culture—from food to entertainment to literature—is greater than ever. Featuring family portraits of real-life immigrant Latino pioneers, as well as accounts of the events and conditions that compelled them to leave their homelands, *Harvest of Empire* is required reading for anyone wishing to understand the history and legacy of this increasingly influential group.

The Privileged Planet Oct 09 2021 Earth. The Final Frontier Contrary to popular belief, Earth is not an insignificant blip on the universe's radar. Our world proves anything but average in Guillermo Gonzalez and Jay W. Richards' *The Privileged Planet: How Our Place in the Cosmos Is Designed for Discovery*. But what exactly does Earth bring to the table? How does it prove its worth among numerous planets and constellations in the vastness of the Milky Way? In *The Privileged Planet*, you'll learn about the world's life-sustaining capabilities, water and its miraculous makeup, protection by the planetary giants, and how our planet came into existence in the first place.

A Mayan Life Nov 10 2021

Digital Image Processing Jul 18 2022 "The principal objectives of this book are to provide an introduction to basic concepts and methodologies for digital image processing, and to develop a foundation that can be used as the basis for further study and research in this field."--Back cover.

Digital Image Processing Jan 24 2023 Possibly the best book available as a text for a first course in digital image processing, this book can be used for both upper level courses in computer science or electrical engineering, and also can be applied to the industrial market.

Space Invaders Jul 06 2021 Longlisted for the National Book Award for Translated Literature A dreamlike evocation of a generation that grew up in the shadow of a dictatorship in 1980s Chile *Space Invaders* is the story of a group of childhood friends who, in adulthood, are preoccupied by uneasy memories and visions of their classmate Estrella González Jepsen. In their dreams, they catch glimpses of Estrella's braids, hear echoes of her voice, and read old letters that eventually, mysteriously, stopped arriving. They recall regimented school assemblies, nationalistic class performances, and

a trip to the beach. Soon it becomes clear that Estrella's father was a ranking government officer implicated in the violent crimes of the Pinochet regime, and the question of what became of her after she left school haunts her erstwhile friends. Growing up, these friends—from her pen pal, Maldonado, to her crush, Riquelme—were old enough to sense the danger and tension that surrounded them, but were powerless in the face of it. They could control only the stories they told one another and the “ghostly green bullets” they fired in the video game they played obsessively. One of the leading Latin American writers of her generation, Nona Fernández effortlessly builds a choral and constantly shifting image of young life in the waning years of the dictatorship. In her short but intricately layered novel, she summons the collective memory of a generation, rescuing felt truth from the oblivion of official history.

A Thunderous Whisper Jun 05 2021 "In the midst of the Spanish Civil War, 12-year-old Ani unexpectedly gets drawn into a network of underground rebels working to thwart Franco's efforts to destroy the Basque people's way of life. . . . Exciting." -- SLJ Ani believes she is just an insignificant whisper of a girl in a loud world. This is what her mother tells her anyway. Her father made her feel important, but he's been off fighting in Spain's Civil War, and his voice in her head is fading. Then she meets Mathias. His family has just moved to Guernica and he's as far from a whisper as a boy can be. Ani thinks Mathias is more like lightning. Mathias's father is part of a spy network and soon Ani finds herself helping him deliver messages to other members of the underground. For the first time, she's making a difference in the world. And then her world explodes. The sleepy little market town of Guernica is destroyed by Nazi bombers. In one afternoon Ani loses her city, her home, her mother. But in helping the other survivors, Ani gains a sense of her own strength. And she and Mathias make plans to fight back in their own unique way.

Digital Image Processing Mar 26 2023 A comprehensive digital image processing book that reflects new trends in this field such as document image compression and data compression standards. The book includes a complete rewrite of image data compression, a new chapter on image analysis, and a new section on image morphology.

Fearless Apr 15 2022 While rehearsing what may be the last show in the Ethel Merman Theater, twelve-year-old Monica Garcia and other cast members are locked in and must try to appease a ghost and reverse a curse.

Group Theoretic Cryptography Aug 07 2021 Group theoretic problems have propelled scientific achievements across a wide range of fields, including mathematics, physics, chemistry, and the life sciences. Many cryptographic constructions exploit the computational hardness of group theoretical

problems, and the area is viewed as a potential source of quantum-resilient cryptographic primitives

***Treatment of the Postmenopausal Woman* Feb 01 2021** For anyone who treats postmenopausal women, this latest edition of Rogerio Lobo's classic work combines the best from two well-known references: *Menopause*, and the second edition of *Treatment of the Postmenopausal Woman*. By adding significant discussions of the basic science behind menopause, it is possible to objectively assess the clinical value and limitations of current approaches to treatment and provide a basis and rationale for strategies that will result in better individualized and specialized care. Not only does the third edition discuss diagnosis and treatment of menopause but it covers biological, anatomical, physiological, pathobiological, and pharmacological aspects as well bringing together, in one source, all of the information needed to understand and treat postmenopausal conditions. Over 50% new material representing the vast amount of information available since the Women's Health Initiative (WHI) clinical trials were completed making this the most up-to-date reference on postmenopausal women. Includes several new sections on comparisons between clinical trials and observational data, urology, and pelvic support. Each section is preceded by a preface to put the area into context with many chapters having suggested treatment regimens.

***Handbook of Social Work Practice with Vulnerable and Resilient Populations* Apr 22 2020** Role in forming balanced assessments.

***Psychosocial Interventions for Mental and Substance Use Disorders* Jul 26 2020** Mental health and substance use disorders affect approximately 20 percent of Americans and are associated with significant morbidity and mortality. Although a wide range of evidence-based psychosocial interventions are currently in use, most consumers of mental health care find it difficult to know whether they are receiving high-quality care. Although the current evidence base for the effects of psychosocial interventions is sizable, subsequent steps in the process of bringing a psychosocial intervention into routine clinical care are less well defined. *Psychosocial Interventions for Mental and Substance Use Disorders* details the reasons for the gap between what is known to be effective and current practice and offers recommendations for how best to address this gap by applying a framework that can be used to establish standards for psychosocial interventions. The framework described in *Psychosocial Interventions for Mental and Substance Use Disorders* can be used to chart a path toward the ultimate goal of improving the outcomes. The framework highlights the need to (1) support research to strengthen the evidence base on the efficacy and effectiveness of psychosocial interventions; (2) based on this evidence, identify the key elements that drive an

intervention's effect; (3) conduct systematic reviews to inform clinical guidelines that incorporate these key elements; (4) using the findings of these systematic reviews, develop quality measures - measures of the structure, process, and outcomes of interventions; and (5) establish methods for successfully implementing and sustaining these interventions in regular practice including the training of providers of these interventions. The recommendations offered in this report are intended to assist policy makers, health care organizations, and payers that are organizing and overseeing the provision of care for mental health and substance use disorders while navigating a new health care landscape. The recommendations also target providers, professional societies, funding agencies, consumers, and researchers, all of whom have a stake in ensuring that evidence-based, high-quality care is provided to individuals receiving mental health and substance use services.

Mexicanos Jun 17 2022 Newly revised and updated, *Mexicanos* tells the rich and vibrant story of Mexicans in the United States. Emerging from the ruins of Aztec civilization and from centuries of Spanish contact with indigenous people, Mexican culture followed the Spanish colonial frontier northward and put its distinctive mark on what became the southwestern United States. Shaped by their Indian and Spanish ancestors, deeply influenced by Catholicism, and tempered by an often difficult existence, Mexicans continue to play an important role in U.S. society, even as the dominant Anglo culture strives to assimilate them. Thorough and balanced, *Mexicanos* makes a valuable contribution to the understanding of the Mexican population of the United States--a growing minority who are a vital presence in 21st-century America.

Employment Discrimination Aug 27 2020 This casebook, originally with lead author Susan Grover, asks students to view legal problems from different perspectives, such as a plaintiff's lawyer, a judge, an in-house counsel, a defense attorney, a victim of discrimination, a person accused of discrimination, a human resources professional, and an employer. Notable changes to the third edition include additional practice exercises and updated materials on disability discrimination, religious discrimination, pregnancy discrimination, and sexual orientation discrimination. In particular, the chapter on protected traits and special issues has been modified to reflect recent developments in employment discrimination law.

***The Child in the Family and the Community* May 24 2020** Recognizing that socialization is one of the most important aspects of child development, this lively and engaging book examines socialization issues of young children during child rearing, in child care facilities, and in the early education system within a developmental context. Child development as it relates to a child's first eight years, to a healthy family, and to a

multicultural community is presented to readers through personal stories, vignettes, pictures, and a wealth of examples. For anyone with a personal or professional interest in early childhood development and education.

Managing Online Risk Nov 29 2020 In recent years, building a corporate online presence has become nonnegotiable for businesses, as consumers expect to connect with them in as many ways as possible. There are benefits to companies that use online technology, but there are risks as well. Managing Online Risk presents the tools and resources needed to better understand the security and reputational risks of online and digital activity, and how to mitigate those risks to minimize potential losses. Managing Online Risk highlights security and risk management best practices that address concerns such as data collection and storage, liability, recruitment, employee communications, compliance violations, security of devices (in contexts like mobile, apps, and cloud computing), and more. Additionally, this book offers a companion website that was developed in parallel with the book and includes the latest updates and resources for topics covered in the book. Explores the risks associated with online and digital activity and covers the latest technologies, such as social media and mobile devices Includes interviews with risk management experts and company executives, case studies, checklists, and policy samples A website with related content and updates (including video) is also available

Jose Gonzalez Vampirella Art Edition Sep 27 2020 Celebrate the extraordinary work of Jose Gonzalez, an unparalleled master of horror illustration, with this gorgeous hardcover collection, presenting for the first time actual storyboard artwork spanning his years as the preeminent Vampirella artist! Eleven captivating and creepy tales appear in their entirety, stories ranging over ten years from Vampirella Magazine #15 (January 1972) to issue #112 (March 1983). Scanned in high-resolution color and printed at original size, Jose Gonzalez's Vampirella Art Edition preserves every detail of the artist's meticulous skill and hard work, a true treasure for longtime Vampi fans.

Fourier Analysis and Boundary Value Problems Jan 20 2020 Fourier Analysis and Boundary Value Problems provides a thorough examination of both the theory and applications of partial differential equations and the Fourier and Laplace methods for their solutions. Boundary value problems, including the heat and wave equations, are integrated throughout the book. Written from a historical perspective with extensive biographical coverage of pioneers in the field, the book emphasizes the important role played by partial differential equations in engineering and physics. In addition, the author demonstrates how efforts to deal with these problems have lead to wonderfully significant developments in mathematics. A clear

and complete text with more than 500 exercises, **Fourier Analysis and Boundary Value Problems** is a good introduction and a valuable resource for those in the field. Topics are covered from a historical perspective with biographical information on key contributors to the field. The text contains more than 500 exercises. Includes practical applications of the equations to problems in both engineering and physics.

The Death of Ramón González Jan 12 2022 **The Death of Ramón González** has become a benchmark book since its publication in 1990. It has been taught in undergraduate and graduate courses in every social science discipline, sustainable and alternative agriculture, environmental studies, ecology, ethnic studies, public health, and Mexican, Latin American, and environmental history. The book has also been used at the University of California-Santa Cruz as a model of interdisciplinary work and at the University of Iowa as a model of fine journalism, and has inspired numerous other books, theses, films, and investigative journalism pieces. This revised edition of **The Death of Ramón González** updates the science and politics of pesticides and agricultural development. In a new afterword, Angus Wright reconsiders the book's central ideas within the context of globalization, trade liberalization, and NAFTA, showing that in many ways what he called "the modern agricultural dilemma" should now be thought of as a "twenty-first century dilemma" that involves far more than agriculture.

Disease Control Priorities, Third Edition (Volume 9) May 04 2021 As the culminating volume in the DCP3 series, volume 9 will provide an overview of DCP3 findings and methods, a summary of messages and substantive lessons to be taken from DCP3, and a further discussion of cross-cutting and synthesizing topics across the first eight volumes. The introductory chapters (1-3) in this volume take as their starting point the elements of the Essential Packages presented in the overview chapters of each volume. First, the chapter on intersectoral policy priorities for health includes fiscal and intersectoral policies and assembles a subset of the population policies and applies strict criteria for a low-income setting in order to propose a "highest-priority" essential package. Second, the chapter on packages of care and delivery platforms for universal health coverage (UHC) includes health sector interventions, primarily clinical and public health services, and uses the same approach to propose a highest priority package of interventions and policies that meet similar criteria, provides cost estimates, and describes a pathway to UHC.

Digital Image Processing, 2/e Oct 21 2022 En introduktion til digital billedbehandling.

Computing Handbook, Third Edition Mar 14 2022 **Computing Handbook, Third Edition: Computer Science and Software Engineering** mirrors the modern taxonomy of computer science and software engineering as

described by the Association for Computing Machinery (ACM) and the IEEE Computer Society (IEEE-CS). Written by established leading experts and influential young researchers, the first volume of this popular handbook examines the elements involved in designing and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

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