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Machinery's Handbook

A Reference Book for the Mechanical Engineer, Designer, Manufacturing Engineer, Draftsman, Toolmaker, and Machinist

Strengthening Forensic Science in the United States

A Path Forward

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Writing and Speaking in the Technology Professions

A Practical Guide

*John Wiley & Sons An updated edition of the classic guide to technical communication Consider that 20 to 50 percent of a technology professional's time is spent communicating with others. Whether writing a memo, preparing a set of procedures, or making an oral presentation, effective communication is vital to your professional success. This anthology delivers concrete advice from the foremost experts on how to communicate more effectively in the workplace. The revised and expanded second edition of this popular book completely updates the original, providing authoritative guidance on communicating via modern technology in the contemporary work environment. Two new sections on global communication and the Internet address communicating effectively in the context of increased e-mail and web usage. As in the original, David Beer's Second Edition discusses a variety of approaches, such as: * Writing technical documents that are clear and effective * Giving oral presentations more confidently * Using graphics and other visual aids judiciously * Holding productive meetings * Becoming an effective listener The new edition also includes updated articles on working with others to get results and on giving directions that work. Each article is aimed specifically at the needs of engineers and others in the technology professions, and is written by a practicing engineer or a technical communicator. Technical engineers, IEEE society members, and technical writing teachers will find this updated edition of David Beer's classic Writing and Speaking in the Technology Professions an invaluable guide to successful communication.*

Research-based Web Design & Usability Guidelines

Health and Human Services Department Although recent findings show the public increasingly interacting with government Web sites, a common problem is that people can't find what they're looking for. In other words, the sites lack usability. The Research-Based Web Design and Usability Guidelines aid in correcting this problem by providing the latest Web design guidance from the research and other forms of evidence. This unique publication has been updated from its earlier version to include over 40 new or updated research guidelines, bringing the total to 209. Primary audiences for the book are: Web managers, designers, and all staff involved in the creation of Web sites. Topics in the book include: home page design, page and site navigation, graphics and images, effective Web content writing, and search. A new section on usability testing guidance has been added. Experts from across government, industry, and academia have reviewed and contributed to the development of the Guidelines. And, since their introduction in 2003, the Guidelines have been widely used by government, private, and academic institutions to improve Web design.

Innovations in Applied Artificial Intelligence

17th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE

2004, Ottawa, Canada, May 17-20, 2004. Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of the 17th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE 2004, held in Ottawa, Canada, in May 2004. The 129 revised full papers presented were carefully reviewed and selected from 208 submissions. The papers are organized in topical sections on neural networks, bioinformatics, data mining, general applications, autonomous agents, intelligent systems, knowledge processing and NLP, intelligent user interfaces, evolutionary computing, fuzzy logic, human-roboter interaction, computer vision and image processing, machine learning and case-based reasoning, heuristic search, security, Internet applications, planning and scheduling, constraint satisfaction, e-learning, expert systems, applications to design, machine learning, and image processing.

Universal Access in Human-Computer Interaction: Design for All and Accessibility Practice

8th International Conference, UAHCI 2014, Held as Part of HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014, Proceedings, Part IV

[Springer](#) The four-volume set LNCS 8513-8516 constitutes the refereed proceedings of the 8th International Conference on Universal Access in Human-Computer Interaction, UAHCI 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCI 2014, held in Heraklion, Crete, Greece in June 2014, jointly with 14 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCI 2014 conferences was carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 251 contributions included in the UAHCI proceedings were carefully reviewed and selected for inclusion in this four-volume set. The 60 papers included in this volume are organized in the following topical sections: web accessibility; design for all in the built environment; global access infrastructures and user experiences in universal access.

Rurality Re-imagined

Villagers, Farmers, Wanderers, Wild Things

[Applied Research and Design Publishing](#) Against a backdrop of rapid urbanization, representations of rural society and experience are re-thought and re-imagined in this book by leading contemporary artists and scholars.

Democratizing Innovation

[MIT Press](#) The process of user-centered innovation: how it can benefit both users and manufacturers and how its emergence will bring changes in business models and in public policy. Innovation is rapidly becoming democratized. Users, aided by improvements in computer and communications technology, increasingly can develop their own new products and services. These innovating users—both individuals and firms—often freely share their innovations with others, creating user-innovation communities and a rich intellectual commons. In *Democratizing Innovation*, Eric von Hippel looks closely at this emerging system of user-centered innovation. He explains why and when users find it profitable to develop new products and services for themselves, and why it often pays users to reveal their innovations freely for the use of all. The trend toward democratized innovation can be seen in software and information products—most notably in the free and open-source software movement—but also in physical products. Von Hippel's many examples of user innovation in action range from surgical equipment to surfboards to software security features. He shows that product and service development is concentrated among "lead users," who are ahead on marketplace trends and whose innovations are often commercially attractive. Von Hippel argues that manufacturers should redesign their innovation processes and that they should systematically seek out innovations developed by users. He points to businesses—the custom semiconductor industry is one example—that have learned to assist user-innovators by providing them with toolkits for developing new products. User innovation has a positive impact on social welfare, and von Hippel proposes that government policies, including R&D subsidies and tax credits, should be realigned to eliminate biases against it. The goal of a democratized user-centered innovation system, says von Hippel, is well worth striving for. An electronic version of this book is available under a Creative Commons license.

A Theory of African Constitutionalism

[Oxford University Press](#) *A Theory of African Constitutionalism* asks and seeks to answer why we need a new theoretical framework for African constitutionalism and how this could offer us better theoretical and practical tools with which to understand, improve, and assess African constitutionalism on its own terms. By locating constitutional studies in Africa within the experiences, interactions, and contestations of power and governance beginning in precolonial times, the book presents the development and transformation of African constitutional systems across time and place, along with the attendant constitutional designs and practices ranging from the nature and operation of the African state to its vertical and horizontal government structures, to its constitutional rights regime. This title offers both a theoretically and comparatively rich, historically and contextually informed, and temporally and spatially extensive account of the nature, travails, and incremental successes of African constitutionalism with detailed case studies from Nigeria, Ethiopia, and South Africa. *A Theory of African Constitutionalism* provides scholars, policymakers, governments, and constitution builders in Africa and beyond with new insights for reimagining the purpose, substance, and scope of constitutions and constitutionalism.

Industrial Ventilation

A Manual of Recommended Practice for Design, 29th Edition

The Data Science Design Manual

[Springer](#) This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. *The Data Science Design Manual* is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an "Introduction to Data Science" course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains "War Stories," offering perspectives on how data science applies in the real world Includes "Homework Problems," providing a wide range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at www.data-manual.com Provides "Take-Home Lessons," emphasizing the big-picture concepts to learn from each chapter Recommends exciting "Kaggle Challenges" from the online platform Kaggle Highlights "False Starts," revealing the subtle reasons why certain approaches fail Offers examples taken from the data science television show "The Quant Shop" (www.quant-shop.com)

Advances in GPU Research and Practice

[Morgan Kaufmann](#) *Advances in GPU Research and Practice* focuses on research and practices in GPU based systems. The topics treated cover a range of issues, ranging from hardware and architectural issues, to high level issues, such as application systems, parallel programming, middleware, and power and energy issues. Divided into six parts, this edited volume provides the latest research on GPU computing. Part I: *Architectural Solutions* focuses on the architectural topics that improve on performance of GPUs, Part II: *System Software* discusses OS, compilers, libraries, programming environment, languages, and paradigms that are proposed and analyzed to help and support GPU programmers. Part III: *Power and Reliability Issues* covers different aspects of energy, power, and reliability concerns in GPUs. Part IV: *Performance Analysis* illustrates mathematical and analytical techniques to predict different performance metrics in GPUs. Part V: *Algorithms* presents how to design efficient algorithms and analyze their complexity for GPUs. Part VI: *Applications and Related Topics* provides use cases and examples of how GPUs are used across many sectors. Discusses how to

maximize power and obtain peak reliability when designing, building, and using GPUs Covers system software (OS, compilers), programming environments, languages, and paradigms proposed to help and support GPU programmers Explains how to use mathematical and analytical techniques to predict different performance metrics in GPUs Illustrates the design of efficient GPU algorithms in areas such as bioinformatics, complex systems, social networks, and cryptography Provides applications and use case scenarios in several different verticals, including medicine, social sciences, image processing, and telecommunications

Machinery's Handbook 31 Digital Edition

An Easy-Access Value-Added Package

Since the first edition published more than 100 years ago, Machinery's Handbook has been acknowledged as an exceptionally authoritative and comprehensive, yet highly practical, and easy-to-use tool. The versatile Machinery's Handbook 31 Digital Edition makes access to this vast collection of information even easier and includes more than 1,200 additional pages. This value-added package includes: The complete contents of the printed Machinery's Handbook, 31st Edition, which has grown by nearly 100 pages, with thousands of revisions and updates since the last edition. Nearly 800 pages of additional archival content--still useful and interesting text, tables, and figures--extracted over time from previous editions of the Handbook. Table of contents and indexes for material only available in the Digital Edition. Useful indexes of standards and materials covered throughout this expanded edition. The complete contents of the companion volume Guide to the Use of Tables and Formulas in the Machinery's Handbook, 31st Edition, with handy links to Digital Edition pages. Features View and print text, tables, and graphics identical to the printed book. Zoom to magnify pages for a detailed view of complex and detailed data. Search the complete contents and access information you need with quick navigation aids: thousands of clickable links in the contents, text, and indexes. Choose online and offline viewing options on your PC, Mac, iPad, iPhone, and Android devices (download of provided reader required for offline viewing applications). Installation Note: While we have eliminated use of a CD-ROM drive, an Internet connection still is required for setup of the Machinery's Handbook 31 Digital Edition. This package includes detailed setup instructions and a unique access code to register a single-user digital product.

School, Family, and Community Partnerships

Your Handbook for Action

Corwin Press Strengthen family and community engagement to promote equity and increase student success! When schools, families, and communities collaborate and share responsibility for students' education, more students succeed in school. Based on 30 years of research and fieldwork, this fourth edition of a bestseller provides tools and guidelines to use to develop more effective and equitable programs of family and community engagement. Written by a team of well-known experts, this foundational text demonstrates a proven approach to implement and sustain inclusive, goal-oriented programs. Readers will find: Many examples and vignettes Rubrics and checklists for implementation of plans CD-ROM complete with slides and notes for workshop presentations

Technology learning in Contemporary World

Krishna Publication House

REST: From Research to Practice

Springer Science & Business Media This volume provides an overview and an understanding of REST (Representational State Transfer). Discussing the constraints of REST the book focuses on REST as a type of web architectural style. The focus is on applying REST beyond Web applications (i.e., in enterprise environments), and in reusing established and well-understood design patterns when doing so. The reader will be able to understand how RESTful systems can be designed and deployed, and what the results are in terms of benefits and challenges encountered in the process. Since REST is relatively new as an approach for designing Web Services, the more advanced part of the book collects a number of challenges to some of the assumptions and constraints of REST, and looks at current research work on how REST can be extended and applied to scenarios that often are considered not to be a good match for REST. This work will help readers to reach a deeper understanding of REST on a practical as well as on an advanced level.

Interaction Design

John Wiley & Sons

Technology and Practice of Passwords

International Conference on Passwords, PASSWORDS'14, Trondheim, Norway, December 8-10, 2014, Revised Selected Papers

Springer This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Passwords, PASSWORDS 2014, held in Trondheim, Norway, in December 2014. The 8 revised full papers presented together with 2 revised short papers were carefully reviewed and selected from 30 initial submissions. The papers are organized in topical sections on hash functions, usability, analyses and new techniques.

Applied Photovoltaics

Earthscan The rich tapestry of life on our planet is the outcome of over 3.5 billion years of evolutionary history, shaped by natural processes and, increasingly, by the influence of humans. Out of an estimated 13 million species, about 1.75 million have so far been

Building Secure and Reliable Systems

Best Practices for Designing, Implementing, and Maintaining Systems

O'Reilly Media Can a system be considered truly reliable if it isn't fundamentally secure? Or can it be considered secure if it's unreliable? Security is crucial to the design and operation of scalable systems in production, as it plays an important part in product quality, performance, and availability. In this book, experts from Google share best practices to help your organization design scalable and reliable systems that are fundamentally secure. Two previous O'Reilly books from Google—Site Reliability Engineering and The Site Reliability Workbook—demonstrated how and why a commitment to the entire service lifecycle enables organizations to successfully build, deploy, monitor, and maintain software systems. In this latest guide, the authors offer insights into system design, implementation, and maintenance from practitioners who specialize in security and reliability. They also discuss how

building and adopting their recommended best practices requires a culture that's supportive of such change. You'll learn about secure and reliable systems through: Design strategies Recommendations for coding, testing, and debugging practices Strategies to prepare for, respond to, and recover from incidents Cultural best practices that help teams across your organization collaborate effectively

Security Designs for the Cloud, IoT, and Social Networking

John Wiley & Sons Security concerns around the rapid growth and variety of devices that are controlled and managed over the Internet is an immediate potential threat to all who own or use them. This book examines the issues surrounding these problems, vulnerabilities, what can be done to solve the problems, investigating the roots of the problems and how programming and attention to good security practice can combat the threats today that are a result of lax security processes on the Internet of Things, cloud computing and social media.

Handbook of Distance Education

Routledge The third edition of this award-winning Handbook continues the mission of its predecessors: to provide a comprehensive compendium of research in all aspects of distance education, arguably the most significant development in education over the past three decades. While the book deals with education that uses technology, the focus is on teaching and learning and how its management can be facilitated through technology. Key features include: Comprehensive coverage that includes all aspects of distance education, including design, instruction, management, policy, and a section on different audiences. Chapter authors frame their topic in terms of empirical research (past and present) and discuss the nature of current practice in terms of that research. Future research needs are discussed in relation to both confirmed practice and recent changes in the field. Section one provides a unique review of the theories that support distance education pedagogy. Section six includes a unique review of distance education as a component of global culture. This book will be of interest to anyone engaged in distance education at any level. It is also appropriate for corporate and government trainers and for administrators and policy makers in all these environments. Recipient of the 2013 IAP Distance Education Book Award

Project Management

A Systems Approach to Planning, Scheduling, and Controlling

John Wiley & Sons The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest release of the Project Management Institute's Project Management Body of Knowledge (PMI®'s PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certification Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the intricate framework of organizational behavior and structure that can determine project success to the planning, scheduling, and controlling processes vital to effective project management, the new edition thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More than twenty-five case studies, including a new case on the Iridium Project covering all aspects of project management 400 discussion questions More than 125 multiple-choice questions (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Compiler Construction

19th International Conference, CC 2010, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2010, Paphos, Cyprus, March 20-28, 2010. Proceedings

Springer This book constitutes the refereed proceedings of the 19th International Conference on Compiler Construction, CC 2010, held in Paphos, Cyprus, in March 2010, as part of ETAPS 2010, the Joint European Conferences on Theory and Practice of Software. Following a thorough review process, 16 research papers were selected from 56 submissions. Topics covered include optimization techniques, program transformations, program analysis, register allocation, and high-performance systems.

Ernst Denert Award for Software Engineering 2019

Practice Meets Foundations

Springer Nature This open access book provides an overview of the dissertations of the five nominees for the Ernst Denert Award for Software Engineering in 2019. The prize, kindly sponsored by the Gerlind & Ernst Denert Stiftung, is awarded for excellent work within the discipline of Software Engineering, which includes methods, tools and procedures for better and efficient development of high quality software. An essential requirement for the nominated work is its applicability and usability in industrial practice. The book contains five papers describing the works by Sebastian Baltes (U Trier) on Software Developers' Work Habits and Expertise, Timo Greifenberg's thesis on Artefaktbasierte Analyse modellgetriebener Softwareentwicklungsprojekte, Marco Konersmann's (U Duisburg-Essen) work on Explicitly Integrated Architecture, Marija Selakovic's (TU Darmstadt) research about Actionable Program Analyses for Improving Software Performance, and Johannes Späth's (Paderborn U) thesis on Synchronized Pushdown Systems for Pointer and Data-Flow Analysis - which actually won the award. The chapters describe key findings of the respective works, show their relevance and applicability to practice and industrial software engineering projects, and provide additional information and findings that have only been discovered afterwards, e.g. when applying the results in industry. This way, the book is not only interesting to other researchers, but also to industrial software professionals who would like to learn about the application of state-of-the-art methods in their daily work.

Precarity within the Digital Age

Media Change and Social Insecurity

Springer The book deals with precarity within the digital age and focuses on media change and social insecurity. Change arising from digital developments takes place on micro-, meso- and meta-levels and have always social implications. Concepts such as Social Media, eHealth and Digital Capitalism, Informational Capitalism and Social Exclusion, Digital Globalization and Motility frame the social dynamics and implications of changes in digital media. These changes evoke a double precarity or stable instability: Social practices throughout the diverse societal fields are questioned through the media change which leads to a digital age. The ongoing media change requires new social practices - what evokes precarity as an ongoing insecurity how to face the 'new digital world'. As a socio-economic phenomenon and effect of neoliberal policy precarity changes life planning and self-narrations of the affected individuals. Precarity and neoliberal subjection-processes manifest in the digital age and are performatively re-produced by the way new media are used.

Global Innovation Index 2020

Who Will Finance Innovation?

WIPO The Global Innovation Index 2020 provides detailed metrics about the innovation performance of 131 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The 2020 edition sheds light on the state of innovation financing by investigating the evolution of financing mechanisms for entrepreneurs and other innovators, and by pointing to progress and remaining challenges – including in the context of the economic slowdown induced by the coronavirus disease (COVID-19) crisis.

Proceedings of the 26th International Conference on Very Large Data Bases

Morgan Kaufmann Pub

Computer Networking

A Top-Down Approach

Addison-Wesley Longman Computer Networking provides a top-down approach to this study by beginning with applications-level protocols and then working down the protocol stack. Focuses on a specific motivating example of a network—the Internet—as well as introducing students to protocols in a more theoretical context. New short "interlude" on "putting it all together" that follows the coverage of application, transport, network, and datalink layers ties together the various components of the Internet architecture and identifying aspects of the architecture that have made the Internet so successful. A new chapter covers wireless and mobile networking, including in-depth coverage of Wi-Fi, Mobile IP and GSM. Also included is expanded coverage on BGP, wireless security and DNS. This book is designed for readers who need to learn the fundamentals of computer networking. It also has extensive material, on the very latest technology, making it of great interest to networking professionals.

Speculative Everything

Design, Fiction, and Social Dreaming

MIT Press How to use design as a tool to create not only things but ideas, to speculate about possible futures. Today designers often focus on making technology easy to use, sexy, and consumable. In Speculative Everything, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose "what if" questions that are intended to open debate and discussion about the kind of future people want (and do not want). Speculative Everything offers a tour through an emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own design and teaching and from other projects from fine art, design, architecture, cinema, and photography. They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative design increase the odds of achieving desirable futures.

Business Model Generation

A Handbook for Visionaries, Game Changers, and Challengers

John Wiley & Sons Business Model Generation is a handbook for visionaries, game changers, and challengers striving to defy outmoded business models and design tomorrow's enterprises. If your organization needs to adapt to harsh new realities, but you don't yet have a strategy that will get you out in front of your competitors, you need Business Model Generation. Co-created by 470 "Business Model Canvas" practitioners from 45 countries, the book features a beautiful, highly visual, 4-color design that takes powerful strategic ideas and tools, and makes them easy to implement in your organization. It explains the most common Business Model patterns, based on concepts from leading business thinkers, and helps you reinterpret them for your own context. You will learn how to systematically understand, design, and implement a game-changing business model—or analyze and renovate an old one. Along the way, you'll understand at a much deeper level your customers, distribution channels, partners, revenue streams, costs, and your core value proposition. Business Model Generation features practical innovation techniques used today by leading consultants and companies worldwide, including 3M, Ericsson, Capgemini, Deloitte, and others. Designed for doers, it is for those ready to abandon outmoded thinking and embrace new models of value creation: for executives, consultants, entrepreneurs, and leaders of all organizations. If you're ready to change the rules, you belong to "the business model generation!"

Applied Photovoltaics

Routledge The new edition of this thoroughly considered textbook provides a reliable, accessible and comprehensive guide for students of photovoltaic applications and renewable energy engineering. Written by a group of award-winning authors it is brimming with information and is carefully designed to meet the needs of its readers. Along with exercises and references at the end of each chapter, it features a set of detailed technical appendices that provide essential equations, data sources and standards. The new edition has been fully updated with the latest information on photovoltaic cells, modules, applications and policy. Starting from basics with 'The Characteristics of Sunlight' the reader is guided step-by-step through semiconductors and p-n junctions; the behaviour of solar cells; cell properties and design; and PV cell interconnection and module fabrication. The book covers stand-alone photovoltaic systems; specific purpose photovoltaic systems; remote area power supply systems; grid-connected photovoltaic systems and water pumping. Applied Photovoltaics is highly illustrated and very accessible, providing the reader with all the information needed to start working with photovoltaics.

Creative Working in the Knowledge Economy

Routledge There is a growing interest in the knowledge economy, and the new types of job and ways of working associated with it. This book analyses how a particular group – creative knowledge workers – carry out their jobs and learn within it. Using empirical research from advertising and software development in Europe, Singapore and Japan, it develops a new conceptual framework to analyse the complexities of creative knowledge work. Focussing uniquely on the human element of working in the knowledge economy, it explores the real world of how people work in this emerging phenomenon

and examines relationships between knowledge and creative dimensions to provide new frameworks for learning and working. It offers critical insights into how these workers apply their creative knowledge work capacities towards the production of innovative products and services, as well as using their creative abilities and knowledge to fashion both digital and tangible goods in the knowledge economy. Adding significantly to the on-going debate around knowledge work and creativity, this comprehensive examination will be of interest to researchers and educators in organisational learning, management and HRM and to anyone involved in devising ways to develop and support workers in lifelong and flexible creative work practices.

The Dogfish Head Book

26 Years of Off-Centered Adventures

[John Wiley & Sons](#) Celebrate the 26th anniversary of the Dogfish Head Craft Brewery with this rich, adventurous history *The Dogfish Head Book: 26 Years of Off-Centered Adventures* celebrates a quarter-century in business for the Dogfish Head Craft Brewery. Over the past 26 years, the Dogfish Head founders have learned timeless lessons about working and living. This book shares their hard-earned insights and helps readers navigate life's adventures. Through its colorful design and photos, *The Dogfish Head Book* brings the brewing business to life. Inside, you'll find wisdom and entertainment in the form of memorabilia, photos, and the Dogfish Head Rules of Thumb. Food and beer lovers, entrepreneurs, and business professionals alike will enjoy this unique book, which also makes a perfect gift for any Dogfish Head fan or craft beer enthusiast. Since its start in 1995, Dogfish Head has grown exponentially to become one of the most celebrated craft breweries in the United States. This book lets you tour the history of the iconic brand without leaving home. Recounts the rich history of the Dogfish Head Brewery and Distillery Explores the founders' unique and successful business philosophy Reveals new details about the future of this fast-growing brewery Celebrates the 26th anniversary of Dogfish Head Paired nicely with any Dogfish Head beer, *The Dogfish Head Book: 26 Years of Off-Centered Adventures* is a living guide to business and life—the Dogfish way!

Technology Platform Innovations and Forthcoming Trends in Ubiquitous Learning

[IGI Global](#) It is hard to deny the ubiquity of web technologies used for educational tools; which have provided significant breakthroughs in learning environments. These innovations have contributed to the growing approach of computer-supported education. *Technology Platform Innovations and Forthcoming Trends in Ubiquitous Learning* overviews the opportunities provided by new technologies, applications, and research in the areas of ubiquitous learning and how those technologies can be successfully implemented. This publication is addressed to a wide audience of researchers, students, and educators interested in a better comprehension of learning process requirements that are mediate by an assorted set of technology innovations.

Systems Approaches to Knowledge Management, Transfer, and Resource Development

[IGI Global](#) The world is moving into a new era of the knowledge economy. In the past decade, the significance of developing knowledge has grown to a level where it is now dominating other socio-economic factors. *Systems Approaches to Knowledge Management, Transfer, and Resource Development* provides a new view of knowledge management through the lens of systems approach, which looks at each part of the knowledge management system as a section of the full overview. This cutting-edge resource will be essential for academicians, scientists, practitioners, and industry professionals as all of these individuals work toward a new understanding of knowledge and information management practices in the 21st century.

Historical Painting Techniques, Materials, and Studio Practice

Preprints of a Symposium, University of Leiden, the Netherlands, 26–29 June 1995

[Getty Publications](#) Bridging the fields of conservation, art history, and museum curating, this volume contains the principal papers from an international symposium titled "Historical Painting Techniques, Materials, and Studio Practice" at the University of Leiden in Amsterdam, Netherlands, from June 26 to 29, 1995. The symposium—designed for art historians, conservators, conservation scientists, and museum curators worldwide—was organized by the Department of Art History at the University of Leiden and the Art History Department of the Central Research Laboratory for Objects of Art and Science in Amsterdam. Twenty-five contributors representing museums and conservation institutions throughout the world provide recent research on historical painting techniques, including wall painting and polychrome sculpture. Topics cover the latest art historical research and scientific analyses of original techniques and materials, as well as historical sources, such as medieval treatises and descriptions of painting techniques in historical literature. Chapters include the painting methods of Rembrandt and Vermeer, Dutch 17th-century landscape painting, wall paintings in English churches, Chinese paintings on paper and canvas, and Tibetan thangkas. Color plates and black-and-white photographs illustrate works from the Middle Ages to the 20th century.

Handbook of Research on Wireless Sensor Network Trends, Technologies, and Applications

[IGI Global](#) Wireless sensor networks have become an intricate and necessary addition to daily life by providing an energy efficient way to collect and monitor data while rerouting the information to a centralized location. As the application of these networks becomes more common, it becomes imperative to evaluate their effectiveness, as well as other opportunities for possible implementation in the future. *The Handbook of Research on Wireless Sensor Network Trends, Technologies, and Applications* provides inclusive coverage on the processing and applications of wireless communication, sensor networks, and mobile computing. Investigating emergent research and theoretical concepts in the area of wireless sensors and their applications to daily life, this handbook of research is a critical reference source for students, researchers, engineers, scientists, and working professionals.

Analysis and Application of Analog Electronic Circuits to Biomedical Instrumentation, Second Edition

[CRC Press](#) *Analysis and Application of Analog Electronic Circuits to Biomedical Instrumentation, Second Edition* helps biomedical engineers understand the basic analog electronic circuits used for signal conditioning in biomedical instruments. It explains the function and design of signal conditioning systems using analog ICs—the circuits that enable ECG, EEG, EMG, ERG, tomographic images, biochemical spectrograms, and other crucial medical applications. This book demonstrates how op amps are the keystone of modern analog signal conditioning system design and illustrates how they can be used to build instrumentation amplifiers, active filters, and many other biomedical instrumentation systems and subsystems. It introduces the mathematical tools used to describe noise and its propagation through linear systems, and it looks at how signal-to-noise ratios can be improved by signal averaging and linear filtering. Features Analyzes the properties of photonic sensors and emitters and the circuits that power them Details the design of instrumentation amplifiers and medical isolation amplifiers Considers the modulation and demodulation of biomedical signals Examines analog power amplifiers, including power op amps and class D (switched) PAs Describes wireless patient monitoring, including Wi-Fi and Bluetooth communication protocols Explores RFID, GPS, and ultrasonic tags and the design of fractal antennas Addresses special analog electronic circuits and systems such as phase-sensitive rectifiers, phase detectors, and IC thermometers By explaining the "building blocks" of biomedical systems, the author illustrates the importance of signal conditioning systems in the devices that gather and monitor patients' critical medical information. Fully revised and updated, this second edition includes new chapters, a glossary, and end-of-chapter problems. What's New in This Edition Updated and revised material throughout the book A chapter on the applications, circuits, and characteristics of power amplifiers A chapter on wireless patient monitoring using UHF telemetry A chapter on RFID tags, GPS tags, and ultrasonic tags A glossary to help you decode the acronyms and terms used in biomedical electronics, physiology, and biochemistry New end-of-chapter problems and examples

General Issue

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