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Sonar X2 Power!-Scott R. Garrigus 2014-05-14 The leading reference to Cakewalk's powerful digital audio workstation, SONAR X2 POWER! is an all-new edition of this popular guide, offering top-to-bottom detailed coverage of the SONAR X2 software. The book's comprehensive treatment begins with the basics and takes you from setup to final mix with clear, step-by-step instructions and exercises. If you're a new user, you'll start at the beginning and learn everything you need to know to use SONAR for recording, editing, producing, mixing, and sharing your music with the world. If you're already a SONAR user, you'll learn the details about all the exciting new features in SONAR X2--and you'll sharpen your workflow and

improve your music-making. SONAR X2 POWER! is the most complete guide to SONAR X2 available, covering everything from working with SONAR files and navigating projects to advanced editing, surround sound, automation, and much more. No matter what genre you're working in, or what part of the music/audio world you call home, you will benefit from the book's clear guidance and the wealth of production tips and shortcuts. Build and strengthen your SONAR expertise with SONAR X2 POWER!
SONAR"!X3 Power!-Scott Garrigus 2014 SONAR X3 POWER! is an all-new edition of this popular guide to Cakewalk's powerful digital audio workstation, offering full, detailed coverage of the SONAR X3 software. The book's comprehensive treatment begins with the basics and takes you from setup to final mix with clear, step-by-step instructions and exercises. If you're a new user, you'll start at the beginning and learn everything you need to know to use SONAR for recording, editing, producing, mixing, and sharing your music with the world. If you're already a SONAR user, you'll learn the details about all the exciting new features in SONAR X3-and you'll sharpen your workflow and improve your music-making. SONAR X3 POWER! Is the most complete guide to SONAR X3 available, covering everything from working with SONAR files and navigating projects to advanced editing, surround sound, automation, and much more. No matter what genre you're working in, or what part of the music/audio world you call home, you will benefit from the book's clear guidance and the wealth of production tips and shortcuts. Build and strengthen your SONAR expertise with SONAR X3 POWER!
SONAR POWER!-Scott R. Garrigus
Sonar X1 Power!-Scott R. Garrigus 2011 Get the most out of SONAR XI with the definitive guidebook. SONAR XI Power! picks up where the manual leaves off, teaching you how to dig deeper into the program with step-by-step examples and exercises. Cakewalk has completely redesigned SONAR's user interface and streamlined its workflow, so this book is a vital resource for both newbies and seasoned SONAR users who need to get themselves up to speed with what is in many ways a completely new program. From initially customizing SONAR XI to creating and producing a surround-sound mix, you'll learn everything

you need to know to make your composing and recording sessions run more smoothly. Learn about audio and MIDI effects and how to use them in offline and real-time situations. Explore mixing music via software and discover how much control you can have when you're using an on-screen software mixer. Take a look at the advanced features of SONAR XI, including AudioSnap, Automation, V-Vocal, as well as the VX-64 and PX-64 Channel Strip plug-ins. Wrap things up as you learn how to prepare your completed SONAR project and burn it to a CD.

Focal Easy Guide to Cakewalk Sonar-Trev Wilkins 2012-10-02 Get professional results fast with this full color guide to Cakewalk's popular Sonar software. Trev Wilkins provides you with a working knowledge of all the essential tools and features. This concise book is an ideal starting point for anyone using Sonar for the first time and is suitable for users of both Studio and Producer Editions. All the key areas are covered, including: * set up * recording and editing audio * recording and editing MIDI * using plug-in instruments* using ReWire * the console view and routing * automation * working with video *mixing down and mastering. Updates on new features can be found at www.focaleasyguidetocakewalksonar.com

Digital System Design - Use of Microcontroller-Dawoud Shenouda Dawoud 2010-04 Embedded systems are today, widely deployed in just about every piece of machinery from toasters to spacecraft. Embedded system designers face many challenges. They are asked to produce increasingly complex systems using the latest technologies, but these technologies are changing faster than ever. They are asked to produce better quality designs with a shorter time-to-market. They are asked to implement increasingly complex functionality but more importantly to satisfy numerous other constraints. To achieve the current goals of design, the designer must be aware with such design constraints and more importantly, the factors that have a direct effect on them. One of the challenges facing embedded system designers is the selection of the optimum processor for the application in hand; single-purpose, general-purpose or application specific. Microcontrollers are one member of the family of the application specific processors. The book concentrates on the use of microcontroller as the embedded system's processor, and how to use it in many

embedded system applications. The book covers both the hardware and software aspects needed to design using microcontroller. The book is ideal for undergraduate students and also the engineers that are working in the field of digital system design.

Searching the Skies-David Frank Winkler 1997 Originally published in 1997, this hitherto hard-to-find study examines the impact that construction of radar stations and command facilities had on the American landscape. With accompanying black and white photographs throughout, the author explores patterns, themes, and trends that created, influenced, and formed the backdrop to the Cold War defense radar program. This study provides an in-depth look at the radar systems, a state by state listing of the infrastructure that supported the systems, and an extensive bibliography. This historic content can be used to understand and evaluate properties associated with America's detection and command and control system.

Image Processing Using FPGAs-Donald Bailey 2019-06-11 This book presents a selection of papers representing current research on using field programmable gate arrays (FPGAs) for realising image processing algorithms. These papers are reprints of papers selected for a Special Issue of the Journal of Imaging on image processing using FPGAs. A diverse range of topics is covered, including parallel soft processors, memory management, image filters, segmentation, clustering, image analysis, and image compression. Applications include traffic sign recognition for autonomous driving, cell detection for histopathology, and video compression. Collectively, they represent the current state-of-the-art on image processing using FPGAs.

Sound Forge Power-Scott R. Garrigus 2010

An Invitation to Applied Category Theory-Brendan Fong 2019-07-31 Category theory is unmatched in its ability to organize and layer abstractions and to find commonalities between structures of all sorts. No longer the exclusive preserve of pure mathematicians, it is now proving itself to be a powerful tool in science, informatics, and industry. By facilitating communication between communities and building

rigorous bridges between disparate worlds, applied category theory has the potential to be a major organizing force. This book offers a self-contained tour of applied category theory. Each chapter follows a single thread motivated by a real-world application and discussed with category-theoretic tools. We see data migration as an adjoint functor, electrical circuits in terms of monoidal categories and operads, and collaborative design via enriched profunctors. All the relevant category theory, from simple to sophisticated, is introduced in an accessible way with many examples and exercises, making this an ideal guide even for those without experience of university-level mathematics.

Underwater Acoustics-Richard P. Hodges 2011-06-28 Offering complete and comprehensive coverage of modern sonar spectrum system analysis, Underwater Acoustics: Analysis, Design and Performance of Sonar provides a state-of-the-art introduction to the subject and has been carefully structured to offer a much-needed update to the classic text by Urick. Expanded to included computational approaches to the topic, this book treads the line between the highly theoretical and mathematical texts and the more populist, non-mathematical books that characterize the existing literature in the field. The author compares and contrasts different techniques for sonar design, analysis and performance prediction and includes key experimental and theoretical results, pointing the reader towards further detail with extensive references. Practitioners in the field of sonar design, analysis and performance prediction as well as graduate students and researchers will appreciate this new reference as an invaluable and timely contribution to the field. Chapters include the sonar equation, radiated, self and ambient noise, active sonar sources, transmission loss, reverberation, transducers, active target strength, statistical detection theory, false alarms, contacts and targets, variability and uncertainty, modelling detections and tactical decision aids, cumulative probability of detection, tracking target motion analysis and localization, and design and evaluation of sonars

Cakewalk Power!-Scott R. Garrigus 2000 Demonstrates the features of Cakewalk Pro Audio 9, the music software that allows users to digitally compose and record music and generate and edit sheet music.

The Quest for Artificial Intelligence-Nils J. Nilsson 2009-10-30 Artificial intelligence (AI) is a field within computer science that is attempting to build enhanced intelligence into computer systems. This book traces the history of the subject, from the early dreams of eighteenth-century (and earlier) pioneers to the more successful work of today's AI engineers. AI is becoming more and more a part of everyone's life. The technology is already embedded in face-recognizing cameras, speech-recognition software, Internet search engines, and health-care robots, among other applications. The book's many diagrams and easy-to-understand descriptions of AI programs will help the casual reader gain an understanding of how these and other AI systems actually work. Its thorough (but unobtrusive) end-of-chapter notes containing citations to important source materials will be of great use to AI scholars and researchers. This book promises to be the definitive history of a field that has captivated the imaginations of scientists, philosophers, and writers for centuries.
Mechanical Behavior of Materials-Marc André Meyers 2008-11-06 A balanced mechanics-materials approach and coverage of the latest developments in biomaterials and electronic materials, the new edition of this popular text is the most thorough and modern book available for upper-level undergraduate courses on the mechanical behavior of materials. To ensure that the student gains a thorough understanding the authors present the fundamental mechanisms that operate at micro- and nano-meter level across a wide-range of materials, in a way that is mathematically simple and requires no extensive knowledge of materials. This integrated approach provides a conceptual presentation that shows how the microstructure of a material controls its mechanical behavior, and this is reinforced through extensive use of micrographs and illustrations. New worked examples and exercises help the student test their understanding. Further resources for this title, including lecture slides of select illustrations and solutions for exercises, are available online at www.cambridge.org/97800521866758.
Algorithms for Scheduling Problems-FrankWerner 2018-08-24 This book is a printed edition of the Special Issue " Algorithms for Scheduling Problems" that was published in Algorithms

Proceedings of International Joint Conference on Computational Intelligence-Mohammad Shorif Uddin 2019-07-03 This book gathers outstanding research papers presented at the International Joint Conference on Computational Intelligence (IJCCI 2018), which was held at Daffodil International University on 14–15 December 2018. The topics covered include: collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal and natural language processing.
Introduction to Data Mining-Pang-Ning Tan 2018
Localization Algorithms and Strategies for Wireless Sensor Networks: Monitoring and Surveillance Techniques for Target Tracking-Mao, Guoqiang 2009-05-31 Wireless localization techniques are an area that has attracted interest from both industry and academia, with self-localization capability providing a highly desirable characteristic of wireless sensor networks. Localization Algorithms and Strategies for Wireless Sensor Networks encompasses the significant and fast growing area of wireless localization techniques. This book provides comprehensive and up-to-date coverage of topics and fundamental theories underpinning measurement techniques and localization algorithms. A useful compilation for academicians, researchers, and practitioners, this Premier Reference Source contains relevant references and the latest studies emerging out of the wireless sensor network field.
The Craft of Probabilistic Modelling-J. Gani 2012-12-06 This book brings together the personal accounts and reflections of nineteen mathematical model-builders, whose specialty is probabilistic modelling. The reader may well wonder why, apart from personal interest, one should commission and edit such a collection of articles. There are, of course, many reasons, but perhaps the three most relevant are: (i) a philosophicaJ interest in conceptual models; this is an interest shared by everyone who has ever puzzled over the relationship between thought and reality; (ii) a conviction, not unsupported by empirical evidence, that probabilistic modelling has an important contribution to make to scientific research; and finally (iii) a curiosity, historical in its nature, about the complex interplay between personal events and

the development of a field of mathematical research, namely applied probability. Let me discuss each of these in turn. Philosophical Abstraction, the formation of concepts, and the construction of conceptual models present us with complex philosophical problems which date back to Democritus, Plato and Aristotle. We have all, at one time or another, wondered just how we think; are our thoughts, concepts and models of reality approxim&tions to the truth, or are they simply functional constructs helping us to master our environment? Nowhere are these problems more apparent than in mathematical model ling, where idealized concepts and constructions replace the imperfect realities for which they stand. Fundamentals of Digital Image Processing-Chris Solomon 2011-07-05 This is an introductory to intermediate level text on the science of image processing, which employs the Matlab programming language to illustrate some of the elementary, key concepts in modern image processing and pattern recognition. The approach taken is essentially practical and the book offers a framework within which the concepts can be understood by a series of well chosen examples, exercises and computer experiments, drawing on specific examples from within science, medicine and engineering. Clearly divided into eleven distinct chapters, the book begins with a fast-start introduction to image processing to enhance the accessibility of later topics. Subsequent chapters offer increasingly advanced discussion of topics involving more challenging concepts, with the final chapter looking at the application of automated image classification (with Matlab examples) . Matlab is frequently used in the book as a tool for demonstrations, conducting experiments and for solving problems, as it is both ideally suited to this role and is widely available. Prior experience of Matlab is not required and those without access to Matlab can still benefit from the independent presentation of topics and numerous examples. Features a companion website www.wiley.com/go/solomon/fundamentals containing a Matlab fast-start primer, further exercises, examples, instructor resources and accessibility to all files corresponding to the examples and exercises within the book itself. Includes numerous examples, graded exercises and computer experiments to support both students and instructors alike.

Generalized Additive Models-Simon Wood 2006-02-27 Now in widespread use, generalized additive models (GAMs) have evolved into a standard statistical methodology of considerable flexibility. While Hastie and Tibshirani's outstanding 1990 research monograph on GAMs is largely responsible for this, there has been a long-standing need for an accessible introductory treatment of the subject that also emphasizes recent penalized regression spline approaches to GAMs and the mixed model extensions of these models. Generalized Additive Models: An Introduction with R imparts a thorough understanding of the theory and practical applications of GAMs and related advanced models, enabling informed use of these very flexible tools. The author bases his approach on a framework of penalized regression splines, and builds a well-grounded foundation through motivating chapters on linear and generalized linear models. While firmly focused on the practical aspects of GAMs, discussions include fairly full explanations of the theory underlying the methods. Use of the freely available R software helps explain the theory and illustrates the practicalities of linear, generalized linear, and generalized additive models, as well as their mixed effect extensions. The treatment is rich with practical examples, and it includes an entire chapter on the analysis of real data sets using R and the author's add-on package mgcv. Each chapter includes exercises, for which complete solutions are provided in an appendix. Concise, comprehensive, and essentially self-contained, Generalized Additive Models: An Introduction with R prepares readers with the practical skills and the theoretical background needed to use and understand GAMs and to move on to other GAM-related methods and models, such as SS-ANOVA, P-splines, backfitting and Bayesian approaches to smoothing and additive modelling.

Biophysics-William Bialek 2012-12-17 Interactions between the fields of physics and biology reach back over a century, and some of the most significant developments in biology--from the discovery of DNA's structure to imaging of the human brain--have involved collaboration across this disciplinary boundary. For a new generation of physicists, the phenomena of life pose exciting challenges to physics itself, and biophysics has emerged as an important subfield of this discipline. Here, William Bialek provides the first

graduate-level introduction to biophysics aimed at physics students. Bialek begins by exploring how photon counting in vision offers important lessons about the opportunities for quantitative, physics-style experiments on diverse biological phenomena. He draws from these lessons three general physical principles--the importance of noise, the need to understand the extraordinary performance of living systems without appealing to finely tuned parameters, and the critical role of the representation and flow of information in the business of life. Bialek then applies these principles to a broad range of phenomena, including the control of gene expression, perception and memory, protein folding, the mechanics of the inner ear, the dynamics of biochemical reactions, and pattern formation in developing embryos. Featuring numerous problems and exercises throughout, Biophysics emphasizes the unifying power of abstract physical principles to motivate new and novel experiments on biological systems. Covers a range of biological phenomena from the physicist's perspective Features 200 problems Draws on statistical mechanics, quantum mechanics, and related mathematical concepts Includes an annotated bibliography and detailed appendixes Instructor's manual (available only to teachers)

UWB Communication Systems-Maria-Gabriella Di Benedetto 2006 Ultrawideband (UWB) communication systems offer an unprecedented opportunityto impact the future communication world. The enormous available bandwidth, the wide scope of the data rate / rangetrade-off, as well as the potential for very low-cost operation leading topervasive usage, all present a unique opportunity for UWB systems to impactthe way people and intelligent machines communicate and interact with theirenvironment. The aim of this book is to provide an overview of the state of the art of UWBsystems from theory to applications. Due to the rapid progress of multidisciplinary UWB research, such an overviewcan only be achieved by combining the areas of expertise of severalscientists in the field. More than 30 leading UWB researchers and practitioners have contributed tothis book covering the major topics relevant to UWB. These topics includeUWB signal processing, UWB channel measurement and modeling, higher-layerprotocol issues, spatial aspects of UWB signaling, UWB regulation andstandardization, implementation issues, and UWB

applications as well aspositioning. The book is targeted at advanced academic researchers, wireless designers, and graduate students wishing to greatly enhance their knowledge of allaspects of UWB systems

Transducers and Arrays for Underwater Sound-Charles Sherman 2007-01-05 The most comprehensive book on electroacoustic transducers and arrays for underwater sound Includes transducer modeling techniques and transducer designs that are currently in use Includes discussion and analysis of array interaction and nonlinear effects in transducers Contains extensive data in figures and tables needed in transducer and array design Written at a level that will be useful to students as well as to practicing engineers and scientists

Urban Water Cycle Modelling and Management-Meenakshi Arora 2018-09-04 This book is a printed edition of the Special Issue "Urban Water Cycle Modelling and Management" that was published in Water

Introduction to Embedded Systems - A Cyber Physical Systems Approach - Second Edition-Edward Ashford Lee 2014-08-15 This book strives to identify and introduce the durable intellectual ideas of embedded systems as a technology and as a subject of study. The emphasis is on modeling, design, and analysis of cyber-physical systems, which integrate computing, networking, and physical processes.

System Design, Modeling, and Simulation Using Ptolemy II-Claudius Ptolemaeus 2013-09-27 This book is a definitive introduction to models of computation for the design of complex, heterogeneous systems. It has a particular focus on cyber-physical systems, which integrate computing, networking, and physical dynamics. The book captures more than twenty years of experience in the Ptolemy Project at UC Berkeley, which pioneered many design, modeling, and simulation techniques that are now in widespread use. All of the methods covered in the book are realized in the open source Ptolemy II modeling framework and are available for experimentation through links provided in the book. The book is suitable for engineers, scientists, researchers, and managers who wish to understand the rich possibilities offered by modern modeling techniques. The goal of the book is to equip the reader with a breadth of experience that will

help in understanding the role that such techniques can play in design.
Wireless Communications-Keith Q. T. Zhang 2015-12-14 "Provides the reader with an overall picture of wireless communications, carefully expounds its technical details, not only covering a variety of main results and conclusions but also revealing the methodology used for their derivations"--
The Scientist and Engineer's Guide to Digital Signal Processing-Steven W. Smith 1999
Hazard Analysis Techniques for System Safety-Clifton A. Ericson, II 2015-06-12 Explains in detail how to perform the most commonly used hazard analysis techniques with numerous examples of practical applications Includes new chapters on Concepts of Hazard Recognition, Environmental Hazard Analysis, Process Hazard Analysis, Test Hazard Analysis, and Job Hazard Analysis Updated text covers introduction, theory, and detailed description of many different hazard analysis techniques and explains in detail how to perform them as well as when and why to use each technique Describes the components of a hazard and how to recognize them during an analysis Contains detailed examples that apply the methodology to everyday problems
Adaptive Filters-Behrouz Farhang-Boroujeny 2013-04-02 This second edition of Adaptive Filters: Theory andApplications has been updated throughout to reflect the latestdevelopments in this field; notably an increased coverage given tothe practical applications of the theory to illustrate the muchbroader range of adaptive filters applications developed in recentyears. The book offers an easy to understand approach to the theoryand application of adaptive filters by clearly illustrating how thetheory explained in the early chapters of the book is modified forthe various applications discussed in detail in later chapters.This integrated approach makes the book a valuable resource forgraduate students; and the inclusion of more advanced applicationsincluding antenna arrays and wireless communications makes it asuitable technical reference for engineers, practitioners andresearchers. Key features: • Offers a thorough treatment of the theory of adaptivesignal processing; incorporating new material on transform domain,frequency domain, subband adaptive filters, acoustic echocancellation and active noise control. • Provides an in-depth study

of applications which nowincludes extensive coverage of OFDM, MIMO and smart antennas. • Contains exercises and computer simulation problems atthe end of each chapter. • Includes a new companion website hosting MATLAB®simulation programs which complement the theoretical analyses,enabling the reader to gain an in-depth understanding of thebehaviours and properties of the various adaptive algorithms.

An Introduction to Digital Signal Processing-Stanley Mneney 2009-01-10 Mneney's text focuses on basic concepts of digital signal processing, MATLAB simulation, and implementation on selected DSP hardware.

Applied Predictive Analytics-Dean Abbott 2014-03-31 Learn the art and science of predictive analytics — techniques that get results Predictive analytics is what translates big data into meaningful, usable business information. Written by a leading expert in the field, this guide examines the science of the underlying algorithms as well as the principles and best practices that govern the art of predictive analytics. It clearly explains the theory behind predictive analytics, teaches the methods, principles, and techniques for conducting predictive analytics projects, and offers tips and tricks that are essential for successful predictive modeling. Hands-on examples and case studies are included. The ability to successfully apply predictive analytics enables businesses to effectively interpret big data; essential for competition today This guide teaches not only the principles of predictive analytics, but also how to apply them to achieve real, pragmatic solutions Explains methods, principles, and techniques for conducting predictive analytics projects from start to finish Illustrates each technique with hands-on examples and includes as series of in-depth case studies that apply predictive analytics to common business scenarios A companion website provides all the data sets used to generate the examples as well as a free trial version of software Applied Predictive Analytics arms data and business analysts and business managers with the tools they need to interpret and capitalize on big data.

Operations Research for Unmanned Systems-John Q. Dickmann, Jr. 2016-05-02 The first edited volume addressing analysis for unmanned vehicles, with focus on operations research rather than engineering •

The editors have a unique combination of extensive operational experience and technical expertise • Chapters address a wide-ranging set of examples, domains and applications • Accessible to a general readership and also informative for experts

Introduction to Instrumentation and Measurements-Robert B. Northrop 2018-09-03 Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS)

Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

Autonomous Vehicles in Support of Naval Operations-National Research Council 2005-08-05 Autonomous vehicles (AVs) have been used in military operations for more than 60 years, with torpedoes, cruise missiles, satellites, and target drones being early examples.1 They have also been widely used in the civilian sector--for example, in the disposal of explosives, for work and measurement in radioactive environments, by various offshore industries for both creating and maintaining undersea facilities, for atmospheric and undersea research, and by industry in automated and robotic manufacturing. Recent military experiences with AVs have consistently demonstrated their value in a wide range of missions, and anticipated developments of AVs hold promise for increasingly significant roles in future naval operations. Advances in AV capabilities are enabled (and limited) by progress in the technologies of computing and robotics, navigation, communications and networking, power sources and propulsion, and materials. Autonomous Vehicles in Support of Naval Operations is a forward-looking discussion of the naval operational environment and vision for the Navy and Marine Corps and of naval mission needs and potential applications and limitations of AVs. This report considers the potential of AVs for naval operations, operational needs and technology issues, and opportunities for improved operations.

Extreme NXT-Philippe Hurbain 2007-04-30 Written by three world-leading experts in LEGO Mindstorms homebrew hardware, this book contains the detailed instructions for the construction of sensors and other extensions to the NXT. Over 15 projects are explained with well-illustrated, clear, step-by-step instructions so people with even limited experience in electronics can follow. This book is for intermediate-level users of NXT who would like to advance their capabilities by learning some of the basics of electronics. It makes a great reference for the NXT hardware interfaces. Examples even come complete with multiple,

alternative NXT languages.
Killer Facebook Ads-Marty Weintraub 2011-07-13 Expert Facebook advertising techniques you won't find anywhereelse! Facebook has exploded to a community of more than half a billionpeople around the world, making it a deliciously fertile playgroundfor marketers on the cutting edge. Whether you want to leverageFacebook Ads to generate "Likes," promote events, sell products,market applications, deploy next-gen PR, ,this unique guide is theultimate resource on Facebook's wildly successful pay-per-clickadvertising platform. Featuring clever workarounds, unprecedentedtricks, and little-known tips for triumphant Facebook advertising,it’s a must-have on the online marketer’s bookshelf.Facebook advertising expert Marty Weintraub shares undocumentedhow-to advice on everything from targeting methods, advancedadvertising techniques, writing compelling ads, launching acampaign, monitoring and optimizing campaigns, and tons more. Killer Facebook Ads serves up immediately actionable tips &tactics that span the gambit. Learn what Facebook ads are good for, how to set goals,and communicate clear objectives to your boss and stakeholders. Master highly focused demographic targeting on Facebook'ssocial graph. Zero in on relevant customers now. Get extraordinary advice for using each available adelement—headline, body text, images, logos, etc.—formaximum effect How to launch a Facebook advertising campaign and crucialmonitoring and optimizing techniques Essential metrics and reporting considerations Captivating case studies drawn from the author's extensiveFacebook advertising experience, highlighting lessons fromchallenges and successes Tasty bonus: a robust targeting appendix jam-packed withamazing targeting combos Packed with hands-on tutorials and expert-level techniquesand tactics for executing an effective advertising campaign, thisone-of-a-kind book is sure to help you develop, implement, measure,and maintain successful Facebook ad campaigns.
Ship Resistance and Propulsion-Anthony F. Molland 2011-08-08 Ship Resistance and Propulsion provides a comprehensive approach to evaluating ship resistance and propulsion. Informed by applied research, including experimental and CFD techniques, this book provides guidance for the practical estimation of

ship propulsive power for a range of ship types. Published standard series data for hull resistance and propeller performance enables practitioners to make ship power predictions based on material and data contained within the book. Fully worked examples illustrate applications of the data and powering methodologies; these include cargo and container ships, tankers and bulk carriers, ferries, warships, patrol craft, work boats, planing craft and yachts. The book is aimed at a broad readership including practising naval architects and marine engineers, seagoing officers, small craft designers, undergraduate and postgraduate students. Also useful for those involved in transportation, transport efficiency and ecologistics who need to carry out reliable estimates of ship power requirements.
Intelligent Data Engineering and Automated Learning – IDEAL 2019-Hujun Yin 2019-12-25 This two-volume set of LNCS 11871 and 11872 constitutes the thoroughly refereed conference proceedings of the 20th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2019, held in Manchester, UK, in November 2019. The 94 full papers presented were carefully reviewed and selected from 149 submissions. These papers provided a timely sample of the latest advances in data engineering and machine learning, from methodologies, frameworks, and algorithms to applications. The core themes of IDEAL 2019 include big data challenges, machine learning, data mining, information retrieval and management, bio-/neuro-informatics, bio-inspired models (including neural networks, evolutionary computation and swarm intelligence), agents and hybrid intelligent systems, real-world applications of intelligent techniques and AI.

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ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDRENâ€™S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION