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Analysis of Electric Machinery and Drive Systems Proceedings Electronics Engineer's Reference Book Millimeter-Wave Gyrotron Traveling-Wave Tube Amplifiers Nanotechnology Research Programs to Aid the Handicapped Encyclopedia of Computer Science and Technology Analysis for Power Quality Monitoring The Computer Engineering Handbook Electronic Processes in Unipolar Solid-state Devices Design Exploration of Emerging Nano-scale Non-volatile Memory The Second Age of Computer Science Innovation and Ontologies The SAGE Encyclopedia of Industrial and Organizational Psychology Encyclopedia of Computer Science and Technology Group Decision Making under Multiple Criteria Field Chaffers' Hand Book to Hall Marks on Gold and Silver Plate Silicon Based Unified Memory Devices and Technology The Industrial Information Technology Handbook Proceedings of the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems, Volume 1 Remote Sensing Image Fusion Cognitive Resource Management for Heterogeneous Cellular Networks Oxide Reliability ECEL 2019 18th European Conference on e-Learning Introduction to Programming Languages Mobile Cloud Visual Media Computing Computer Vision - ACCV 2014 Workshops CMOS Current Amplifiers Pulse and Synchro-Photon Electronics JCDL '18 Digital Filters and Their Applications Advances in Multimedia Information Processing - PCM 2013 Agile Processes in Software Engineering and Extreme Programming Nonvolatile Memory Design Inferences during Reading Machine Learning Algorithms for Signal and Image Processing Engineering and Managing Software Requirements Multimedia Services in Intelligent Environments Distributed Computer Control Systems in Industrial Automation

This book presents the theory of large-signal nonlinear impulse processes occurring in bipolar and field-effect transistors with a Schottky gate, collapse TRAPATT and tunnel diodes, superlattices, and double heterojunction lasers. It evaluates the maximum speed of impulse operation of these elements and experimentally constructs the generation of pulse oscillations with a repetition frequency of up to 1, 2 and 4 GHz. Original or adapted methods of mathematical modeling of processes provide an opportunity to obtain quantitative dependencies of generated pulse parameters, while the book also details the synchro-photon effect. In addition, as shown here, when a semiconductor element is switched on by an electric pulse, and at the same time a pulse of photons synchronously illuminates it, an effect occurs which increases the switching speed of the element by an order of magnitude. At the same time, the switching transient characteristic is shortened by 10 times or more. After applying this effect in pulse generators in the gigahertz frequency range, an increase in the repetition frequency of the generated oscillations is possible. Welcome to the 2018 ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL) in Fort Worth, Texas! It is our great pleasure to present the proceedings of the 18th JCDL. This year's conference theme -- From Data to Wisdom: Resilient Integration across Societies, Disciplines, and Systems -- reflects the progress of digital libraries into a mature research field. JCDL has always invited a broad range of reporting on research, development, and best practices, ranging across theories, systems, services, and applications in the field. This year's call focused on inviting contributions from many different disciplines (also newcomers and associated disciplines) and different stakeholders (researchers and practitioners), with the intent to showcase the diverse methods and research mix in the DL community. We believe that this goal has been achieved. This year's sessions cover topics about different object types (e.g., text, multimedia), different domains (science, archives), different digital library development stages (collection building, indexing and access, use), and different analysis approaches (citation analysis, topic modelling, linking). The call for papers attracted submissions from 29 countries on four continents. The program committee reviewed and accepted 26 full research papers (from 71 reviewed), 13 short research papers (from 38 reviewed), 4 tutorials, 5 workshops (from 7 reviewed), 45 posters and 3 demonstrations (from 68 reviewed). The doctoral consortium, which looks to assist and mentor young scholars in the investigation and research of digital libraries, received 20 submissions and accepted 11 for presentation at JCDL. This proceedings volume contains the full text of the papers, as well as abstracts of the keynotes, tutorials, workshops, panels, demonstrations, and posters. All paper submissions went through a rigorous reviewing process with three individual reviewers on each paper and a meta-review by a fourth expert from the DL community, which prepared the discussion for the program committee meeting in February 2018. With over 160 PC committee members from three continents, the program committee met virtually to discuss all submitted papers and the conference schedule. Posters and demos were accepted in two rounds of submissions: first, in an open, public call, as well as a second, invitation-only round for converting longer submissions into poster form. As in the past, we will be awarding three honors: the Vannevar Bush Best Paper Award, the Best Student Paper Award, and the Best Poster/Demo Award. During the opening session of the conference, the nominees for the two Best Paper Awards will be announced. The prizes will be presented at the banquet. We hope you will be inspired by the high quality and creativity of these award-winning papers. The primary focus of this book is on basic device concepts, memory cell design, and process technology integration. The first part provides in-depth coverage of conventional nonvolatile memory devices, stack structures from device physics, historical perspectives, and identifies limitations of conventional devices. The second part reviews advances made in reducing and/or eliminating existing limitations of NVM device parameters from the standpoint of device scalability, application extendibility, and reliability. The final part proposes multiple options of silicon based unified (nonvolatile) memory cell concepts and stack designs (SUMs). The book provides Industrial R&D personnel with the knowledge to drive the future memory technology with the established silicon FET-based establishments of their own. It explores application potentials of memory in areas such as robotics, avionics, health-industry, space vehicles, space sciences, bio-imaging, genetics etc. This book constitutes the proceedings of the 14th Pacific-Rim Conference on Multimedia, PCM 2013, held in Nanjing, China, in December 2013. The 30 revised full papers and 27 poster papers presented were carefully reviewed and selected from 153 submissions. The papers cover a wide range of topics in the area of multimedia content analysis, multimedia signal processing and communications and multimedia applications and services. The manufacture of flash memory, which is the dominant nonvolatile memory technology, is facing severe technical barriers. So much so, that some emerging technologies have been proposed as alternatives to flash memory in the nano-regime. Nonvolatile Memory Design: Magnetic, Resistive, and Phase Changing introduces three promising candidates: phase-change memory, magnetic random access memory, and resistive random access memory. The text illustrates the fundamental storage mechanism of these technologies and examines their differences from flash memory techniques. Based on the latest advances, the authors discuss key design methodologies as well as the various functions and capabilities of the three nonvolatile memory technologies. Introducing a new edition of the popular reference on machine analysis Now in a fully revised and expanded edition, this widely used reference on machine analysis boasts many changes designed to address the varied needs of engineers in the electric machinery, electric drives, and electric power industries. The authors draw on their own extensive research efforts, bringing all topics up to date and outlining a variety of new approaches they have developed over the past decade. Focusing on reference frame theory that has been at the core of this work since the first edition, this volume goes a step further, introducing new material relevant to machine design along with numerous techniques for making the derivation of equations more direct and easy to use. Coverage includes: Completely new chapters on winding functions and machine design that add a significant dimension not found in any other text A new formulation of machine equations for improving analysis and modeling of machines coupled to power electronic circuits Simplified techniques throughout, from the derivation of torque equations and synchronous machine analysis to the analysis of unbalanced operation A unique generalized approach to machine parameters identification A first-rate resource for engineers wishing to master cutting-edge techniques for machine analysis, Analysis of Electric Machinery and Drive Systems is also a highly useful guide for students in the field. There is arguably no field in greater need of a comprehensive handbook than computer engineering. The unparalleled rate of technological advancement, the explosion of computer applications, and the now-in-progress migration to a wireless world have made it difficult for engineers to keep up with all the developments in specialties outside their own Angelika C. Bullinger elaborates, applies and tests a methodology for ontology development for use in business management. She models ontologically the moment of idea assessment and selection on a company-specific, industry-typical and generic level and presents action-oriented implications for implementation of the methodology in business reality. The XP conference series established in 2000 was the first conference dedicated to agile processes in software engineering. The idea of the conference is to offer a unique setting

for advancing the state of the art in the research and practice of agile processes. This year’s conference was the ninth consecutive edition of this international event. The conference has grown to be the largest conference on agile software development outside North America. The XP conference enjoys being one of those conferences that truly brings practitioners and academics together. About 70% of XP participants come from industry and the number of academics has grown steadily over the years. XP is more of an experience rather than a regular conference. It offers several different ways to interact and strives to create a truly collaborative environment where new ideas and exciting findings can be presented and shared. For example, this year’s open space session, which was “a conference within a conference”, was larger than ever before. Agile software development is a unique phenomenon from several perspectives. We are immersed in the so-called digital energy network, continuously introducing new technological advances for a better way of life. Numerous emerging words are in the spotlight, namely: Internet of Things (IoT), Big Data, Smart Cities, Smart Grid, Industry 4.0, etc. To achieve this formidable goal, systems should work more efficiently, and this fact inevitably leads to power quality (PQ) assurance. Apart from its economic losses, a bad PQ implies serious risks for machines, and consequently for people. Many researchers are endeavoring to develop new analysis techniques, instruments, measurement methods, and new indices and norms that match and fulfil the requirements regarding the current operation of the electrical network. This book offers a compilation of the some recent advances in this field. The chapters range from computing issues to technological implementations, going through event detection strategies and new indices and measurement methods that contribute significantly to the advancement of PQ analysis. Experiments have been developed within the frames of research units and projects, and deal with real data from industry and public buildings. Human beings have an unavoidable commitment with sustainability, which implies adapting PQ monitoring techniques to our dynamic world, defining a digital and smart concept of quality for electricity. This Springer Brief focuses on cognitive resource management in heterogeneous cellular networks (Het Net) with small cell deployment for the LTE-Advanced system. It introduces the Het Net features, presents practical approaches using cognitive radio technology in accommodating small cell data relay and optimizing resource allocation and examines the effectiveness of resource management among small cells given limited coordination bandwidth and wireless channel uncertainty. The authors introduce different network characteristics of small cell, investigate the mesh of small cell access points in parallel with macrocells in network control and resource management and address resource management in the backhaul with coordination constraints and wireless channel uncertainty. The final section of this brief summarizes and provides future research directions for this topic, including a proposed framework that has been evaluated through realistic simulations. Cognitive Resource Management for Heterogeneous Cellular Networks is designed for researchers and professionals working in wireless communications and networks. Advanced-level students studying electrical and computer engineering should also find the content helpful. Requirements engineering is the process by which the requirements for software systems are gathered, analyzed, documented, and managed throughout their complete lifecycle. Traditionally it has been concerned with technical goals for, functions of, and constraints on software systems. Aurum and Wohlin, however, argue that it is no longer appropriate for software systems professionals to focus only on functional and non-functional aspects of the intended system and to somehow assume that organizational context and needs are outside their remit. Instead, they call for a broader perspective in order to gain a better understanding of the interdependencies between enterprise stakeholders, processes, and software systems, which would in turn give rise to more appropriate techniques and higher-quality systems. Following an introductory chapter that provides an exploration of key issues in requirements engineering, the book is organized in three parts. Part 1 presents surveys of state-of-the art requirements engineering process research along with critical assessments of existing models, frameworks and techniques. Part 2 addresses key areas in requirements engineering, such as market-driven requirements engineering, goal modeling, requirements ambiguity, and others. Part 3 concludes the book with articles that present empirical evidence and experiences from practices in industrial projects. Its broader perspective gives this book its distinct appeal and makes it of interest to both researchers and practitioners, not only in software engineering but also in other disciplines such as business process engineering and management science. The three-volume set, consisting of LNCS 9008, 9009, and 9010, contains carefully reviewed and selected papers presented at 15 workshops held in conjunction with the 12th Asian Conference on Computer Vision, ACCV 2014, in Singapore, in November 2014. The 153 full papers presented were selected from numerous submissions. LNCS 9008 contains the papers selected for the Workshop on Human Gait and Action Analysis in the Wild, the Second International Workshop on Big Data in 3D Computer Vision, the Workshop on Deep Learning on Visual Data, the Workshop on Scene Understanding for Autonomous Systems, and the Workshop on Robust Local Descriptors for Computer Vision. LNCS 9009 contains the papers selected for the Workshop on Emerging Topics on Image Restoration and Enhancement, the First International Workshop on Robust Reading, the Second Workshop on User-Centred Computer Vision, the International Workshop on Video Segmentation in Computer Vision, the Workshop: My Car Has Eyes: Intelligent Vehicle with Vision Technology, the Third Workshop on E-Heritage, and the Workshop on Computer Vision for Affective Computing. LNCS 9010 contains the papers selected for the Workshop on Feature and Similarity for Computer Vision, the Third International Workshop on Intelligent Mobile and Egocentric Vision, and the Workshop on Human Identification for Surveillance. This book contains a collection of the papers accepted in the 18th Asia Pacific Symposium on Intelligent and Evolutionary Systems (IES 2014), which was held in Singapore from 10-12th November 2014. The papers contained in this book demonstrate notable intelligent systems with good analytical and/or empirical results. The Industrial Information Technology Handbook focuses on existing and emerging industrial applications of IT, and on evolving trends that are driven by the needs of companies and by industry-led consortia and organizations. Emphasizing fast growing areas that have major impacts on industrial automation and enterprise integration, the Handbook covers topics such as industrial communication technology, sensors, and embedded systems. The book is organized into two parts. Part 1 presents material covering new and quickly evolving aspects of IT. Part 2 introduces cutting-edge areas of industrial IT. The Handbook presents material in the form of tutorials, surveys, and technology overviews, combining fundamentals and advanced issues, with articles grouped into sections for a cohesive and comprehensive presentation. The text contains 112 contributed reports by industry experts from government, companies at the forefront of development, and some of the most renowned academic and research institutions worldwide. Several of the reports on recent developments, actual deployments, and trends cover subject matter presented to the public for the first time. Electronics Engineer’s Reference Book, 4th Edition is a reference book for electronic engineers that reviews the knowledge and techniques in electronics engineering and covers topics ranging from basics to materials and components, devices, circuits, measurements, and applications. This edition is comprised of 27 chapters; the first of which presents general information on electronics engineering, including terminology, mathematical equations, mathematical signs and symbols, and Greek alphabet and symbols. Attention then turns to the history of electronics; electromagnetic and nuclear radiation; the influence of the ionosphere and the troposphere on the propagation of radio waves; and basic electronic circuits. The reader is also introduced to devices such as electron valves and tubes, integrated circuits, and solid-state devices. The remaining chapters focus on other areas of electronics engineering, including sound and video recording; electronic music and radio astronomy; and applications of electronics in weather forecasting, space exploration, and education. This book will be of value to electronics engineers and professionals in other engineering disciplines, as well as to scientists, students, management personnel, educators, and readers with a general interest in electronics and their applications. Remote Sensing Image Fusion: A Practical Guide gives an introduction to remote sensing image fusion providing an overview on the sensors and applications. It describes data selection, application requirements and the choice of a suitable image fusion technique. It comprises a diverse selection of successful image fusion cases that are relevant to other users and other areas of interest around the world.?The book helps newcomers to obtain a quick start into the practical value and benefits of multi-sensor image fusion. Experts will find this book useful to obtain an overview on the state of the art and understand current constraints that need to be solved in future research efforts. For industry professionals the book can be a great introduction and basis to understand multisensor remote sensing image exploitation and the development of commercialized image fusion software from a practical perspective. The book concludes with a chapter on current trends and future developments in remote sensing image fusion. Along with the book, RSIF website provides additional up-to-date information in the field. This edited volume "Field-Programmable Gate Array" is a collection of reviewed and relevant research chapters, offering a comprehensive overview of recent developments in the field of semiconductors. The book comprises single chapters authored by various researchers and edited by an expert active in the aerospace engineering systems research area. All chapters are complete within themselves but united under a common research study topic. This publication aims at providing a thorough overview of the latest research efforts by international authors and open new possible research paths for further novel developments. This book presents the latest techniques for characterization, modeling and design for nano-scale non-volatile memory (NVM) devices. Coverage focuses on fundamental NVM device fabrication and characterization, internal state identification of memristic dynamics with physics modeling, NVM circuit design and hybrid NVM memory system design-space optimization. The authors discuss design methodologies for nano-scale NVM devices from a circuits/systems perspective, including the general foundations for the fundamental memristic dynamics in NVM devices. Coverage includes physical modeling, as well as the development of a platform to explore novel hybrid CMOS

and NVM circuit and system design. • Offers readers a systematic and comprehensive treatment of emerging nano-scale non-volatile memory (NVM) devices; • Focuses on the internal state of NVM memristic dynamics, novel NVM readout and memory cell circuit design and hybrid NVM memory system optimization; • Provides both theoretical analysis and practical examples to illustrate design methodologies; • Illustrates design and analysis for recent developments in spin-toque-transfer, domain-wall racetrack and memristors. In programming courses, using the different syntax of multiple languages, such as C++, Java, PHP, and Python, for the same abstraction often confuses students new to computer science. Introduction to Programming Languages separates programming language concepts from the restraints of multiple language syntax by discussing the concepts at an abstrac Originally published in 1902. A revised edition with upwards of forty of the hall marks having been redrawn from original specimens. The well illustrated Contents Include: Tables of Date Letters of the Assay Offices London Birmingham Chester Exeter Newcastle Sheffield Edinburgh Glasgow Dublin. Keywords: Edinburgh Glasgow Assay Offices Specimens Exeter Sheffield Upwards Newcastle Dublin London This monograph is intended for an advanced undergraduate or graduate course of engineering and management science. as well as for persons in business. industry. military or in any field. who want an introductory and a capsule look into the methods of group decision making under multiple criteria. This is a sequel to our previous works entitled "Multiple Objective Decision Making--Methods and Applications (No. 164 of the Lecture Notes). and "Multiple Attribute Decision Making--Methods and Applications (No. 186 of the Lecture Notes). Moving from a single decision maker (the consideration of Lecture Notes 164 and 186) to a multiple decision maker setting introduces a great deal of complexity into the analysis. The problem is no longer the selection of the most preferred alternative among the nondominated solutions according to one individual's (single decision maker's) preference structure. The analysis is extended to account for the conflicts among different interest groups who have different objectives. goals. and so forth. Group decision making under multiple criteria includes such diverse and interconnected fields as preference analysis. utility theory. social choice theory. committee decision theory. theory of voting. game theory. expert evaluation analysis. aggregation of qualitative factors. economic equilibrium theory. etc; these are simplified and systematically classified for beginners. This work is to provide readers with a capsule look into the existing methods. their characteristics. and applicability in the complexity of group decision making. "This comprehensive reference work provides immediate, fingertip access to state-of-the-art technology in nearly 700 self-contained articles written by over 900 international authorities. Each article in the Encyclopedia features current developments and trends in computers, software, vendors, and applications...extensive bibliographies of leading figures in the field, such as Samuel Alexander, John von Neumann, and Norbert Wiener...and in-depth analysis of future directions." This "current-amplifier cookbook" contains an extensive review of different current amplifier topologies realisable with modern CMOS integration technologies. The book derives the seldom-discussed issue of high-frequency distortion performance for all reviewed amplifier topologies, using as simple and intuitive mathematical methods as possible. KES International (KES) is a worldwide organisation that provides a professional community and association for researchers, originally in the discipline of Knowledge Based and Intelligent Engineering Systems, but now extending into other related areas. Through this, KES provides its members with opportunities for publication and beneficial interaction. The focus of KES is research and technology transfer in the area of Intelligent S- tems, i.e. computer-based software systems that operate in a manner analogous to the human brain, in order to perform advanced tasks. Recently KES has started to extend its area of interest to encompass the contribution that intelligent systems can make to sustainability and renewable energy, and also the knowledge transfer, innovation and enterprise agenda. Involving several thousand researchers, managers and engineers drawn from u- versities and companies world-wide, KES is in an excellent position to facilitate - ternational research co-operation and generate synergy in the area of artificial intel- gence applied to real-world ‘Smart’ systems and the underlying related theory. The KES annual conference covers a broad spectrum of intelligent systems topics and attracts several hundred delegates from a range of countries round the world. KES also organises symposia on specific technical topics, for example, Agent and Multi Agent Systems, Intelligent Decision Technologies, Intelligent Interactive M- timedia Systems and Services, Sustainability in Energy and Buildings and Innovations through Knowledge Transfer. KES is responsible for two peer-reviewed journals, the International Journal of Knowledge based and Intelligent Engineering Systems, and Intelligent Decision Technologies: an International Journal. Enables readers to understand the fundamental concepts of machine and deep learning techniques with interactive, real-life applications within signal and image processing Machine Learning Algorithms for Signal and Image Processing aids the reader in designing and developing real-world applications using advances in machine learning to aid and enhance speech signal processing, image processing, computer vision, biomedical signal processing, adaptive filtering, and text processing. It includes signal processing techniques applied for pre-processing, feature extraction, source separation, or data decompositions to achieve machine learning tasks. Written by well-qualified authors and contributed to by a team of experts within the field, the work covers a wide range of important topics, such as: Speech recognition, image reconstruction, object classification and detection, and text processing Healthcare monitoring, biomedical systems, and green energy How various machine and deep learning techniques can improve accuracy, precision rate recall rate, and processing time Real applications and examples, including smart sign language recognition, fake news detection in social media, structural damage prediction, and epileptic seizure detection Professionals within the field of signal and image processing seeking to adapt their work further will find immense value in this easy-to-understand yet extremely comprehensive reference work. It is also a worthy resource for students and researchers in related fields who are looking to thoroughly understand the historical and recent developments that have been made in the field. A reference guide for professionals or text for graduate and postgraduate students, this volume emphasizes practical designs and applications of distributed computer control systems. It demonstrates how to improve plant productivity, enhance product quality, and increase the safety, reliability, and This book explores the internet and mobile ecosystems which are powered by cloud computing – an essential, if not indispensable, part of our everyday lives. Billions of users world-wide use this technology for information sharing, communication and social networking and a high proportion of activity is driven by massive media content such as images, videos and other emerging 3D visual media. However, managing, searching and visualizing this gigantic amount of data to facilitate communication is difficult which has led to an influx of innovation and research in these areas. The research is from academics from all around the world, focusing on the intersection of mobile, cloud, visual and multimedia computing and is split into five clear parts. Topics covered in the book include mobile augmented reality, computational photography, mobile visual recognition and search, and human-computer interaction (HCI). The findings discussed is meant to spur on further creative development in both academia and industry within this area. Mobile Cloud Visual Media Computing would of great interest to researchers and academics wishing to see how the state-of-the-art in media computing research is applied to innovative applications, whilst engineers and software designers from industry will gain an insight into the key set of technologies which support mobile and cloud media computing. The well-received first edition of the Encyclopedia of Industrial and Organizational Psychology (2007, 2 vols) established itself in the academic library market as a landmark reference that presents a thorough overview of this cross-disciplinary field for students, researchers, and professionals in the areas of psychology, business, management, and human resources. Nearly ten years later, SAGE presents a thorough revision that both updates current entries and expands the overall coverage, adding approximately 200 new articles, expanding from two volumes to four. Examining key themes and topics from within this dynamic and expanding field of psychology, this work offers a truly cross-cultural and global perspective. 10 years later, this second edition presents a thorough revision that both updates current entries and expands overall coverage. Approximately 200 new articles have been added, expanding from two volumes to four. Authoritative reference work for psychology, business, management and human resources researchers. A study of inferencing from a wide variety of theoretical and disciplinary perspectives, as well as different levels of processing. With breadth and depth of coverage, the Encyclopedia of Computer Science and Technology, Second Edition has a multi-disciplinary scope, drawing together comprehensive coverage of the inter-related aspects of computer science and technology. The topics covered in this encyclopedia include: General and reference Hardware Computer systems organization Networks Software and its engineering Theory of computation Mathematics of computing Information systems Security and privacy Human-centered computing Computing methodologies Applied computing Professional issues Leading figures in the history of computer science The encyclopedia is structured according to the ACM Computing Classification System (CCS), first published in 1988 but subsequently revised in 2012. This classification system is the most comprehensive and is considered the de facto ontological framework for the computing field. The encyclopedia brings together the information and historical context that students, practicing professionals, researchers, and academicians need to have a strong and solid foundation in all aspects of computer science and technology. Presents in summary the state of our knowledge of oxide reliability. By the end of the 1960s, a new discipline named computer science had come into being. A new scientific paradigm--the 'computational paradigm'--was in place, suggesting that computer science had reached a certain level of maturity. Yet as a science it was still precociously young. New forces, some technological, some socio-economic, some cognitive impinged upon it, the outcome of which was that new kinds of computational problems arose over the next two decades. Indeed, by the beginning of the 1990's the structure of the computational paradigm looked markedly different in many important respects from how it was at the end of the 1960s. Author Subrata Dasgupta named the two decades from 1970 to 1990 as the second age of

computer science to distinguish it from the preceding genesis of the science and the age of the Internet/World Wide Web that followed. This book describes the evolution of computer science in this second age in the form of seven overlapping, intermingling, parallel histories that unfold concurrently in the course of the two decades. Certain themes characteristic of this second age thread through this narrative: the desire for a genuine science of computing; the realization that computing is as much a human experience as it is a technological one; the search for a unified theory of intelligence spanning machines and mind; the desire to liberate the computational mind from the shackles of sequentiality; and, most ambitiously, a quest to subvert the very core of the computational paradigm itself. We see how the computer scientists of the second age address these desires and challenges, in what manner they succeed or fail and how, along the way, the shape of computational paradigm was altered. And to complete this history, the author asks and seeks to answer the question of how computer science shows evidence of progress over the course of its second age. A gyrotron traveling-wave amplifier (gyro-TWT) with the high-power and broad-band capabilities is considered as a turn-on key for next generation high-resolution radar. The book presents the most advanced theory, methods and physics in a gyro-TWT. The most challenging problem of instability competition has been for the first time addressed in a focused and systematic way and reported via concise states and vivid pictures. The book is likely to meet the interest of researchers and engineers in radar and microwave technology, who would like to study the gyro-TWTs and to promote its application in millimeter-wave radars. Chao-Hai Du and Pu-Kun Liu are both professors at Peking University. The only reference book which discusses the usage of nanoprobes for structure determination, in an industry where miniaturisation is the main focus. Designed for newcomers as well as professionals already in the industry.

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