Ieee 1120 2004 Ieee Guide For The Planning Design Installation And Repair Of Submarine Power Cable Systems

Covering some of the most cutting-edge research on the delivery and retrieval of interactive multimedia content, this volume of specially chosen contributions provides the most updated perspective on one of the hottest contemporary topics. The material represents extended versions of papers presented at the 11th International Workshop on Image Analysis for Multimedia Interactive Services, a vital international forum on this fast-moving field. Logically organized in discrete sections that approach the subject from its various angles, the content deals in turn with content analysis, motion and activity analysis, high-level descriptors and video retrieval, 3-D and multi-view, and multimedia delivery. The chapters cover the finest detail of emerging techniques such as the use of high-level audio information in improving scene segmentation and the use of subjective logic for forensic visual surveillance. On content delivery, the book examines both images and video, focusing on key subjects including an efficient pre-fetching strategy for JPEG 2000 image sequences. Further contributions look at new methodologies for simultaneous block

reconstruction and provide a trellis-based algorithm for faster motion-vector decision making.

This book constitutes the proceedings of the 20th International GI/ITG Conference on Measurement, Modelling and Evaluation of Computing Systems, MMB 2020, held in Saarbrücken, Germany, in March 2020. The 16 full papers presented in this volume were carefully reviewed and selected from 32 submissions. They are dealing with scientific aspects of measurement, modelling and evaluation of intelligent systems including computer architectures, communication networks, distributed systems and software, autonomous systems, workflow systems, cyber-physical systems and networks, Internet-of-Things, as well as highly dependable, highly performant and highly secure systems.

Algorithmic discrete mathematics plays a key role in the development of information and communication technologies, and methods that arise in computer science, mathematics and operations research – in particular in algorithms, computational complexity, distributed computing and optimization – are vital to modern services such as mobile telephony, online banking and VoIP. This book examines communication networking from a mathematical viewpoint. The contributing authors took part in the European COST action 293 – a four-year program of multidisciplinary research on this subject. In this book they offer introductory overviews and state-of-

the-art assessments of current and future research in the fields of broadband, optical, wireless and ad hoc networks. Particular topics of interest are design, optimization, robustness and energy consumption. The book will be of interest to graduate students, researchers and practitioners in the areas of networking, theoretical computer science, operations research, distributed computing and mathematics. Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement, transmission capability enhancement and operation planning. The book is organized into three parts. The first part describes the CSC-HVDC and VSC-HVDC technologies, the second part presents the FACTS devices, and the third part refers to the artificial intelligence techniques. All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements. Discusses detailed operating principles and diagrams, theory of modeling, control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems, from planning and monitoring to operation and control Each chapter is

carefully edited, with drawings and illustrations that
helps the reader to easily understand the principles
of operation or application Advanced Solutions in
Power Systems: HVDC, FACTS, and Artificial
Intelligence is written for graduate students,
researchers in transmission and distribution
networks, and power system operation. This book
also serves as a reference for professional software
developers and practicing engineers.
Mobile multimedia broadcasting compasses a broad
range of topics including radio propagation,
modulation and demodulation, error control, signal
compression and coding, transport and time slicing,
system on chip real-time implementation in ha- ware,
software and system levels. The major goal of this
technology is to bring multimedia enriched contents
to handheld devices such as mobile phones,
portable digital assistants, and media players
through radio transmission or internet pro- col (IP)
based broadband networks. Research and
development of mobile multi- dia broadcasting
technologies are now explosively growing and
regarded as new killer applications. A number of
mobile multimedia broadcasting standards related to
transmission, compression and multiplexing now
coexist and are being ext- sively further developed.
The development and implementation of mobile
multi- dia broadcasting systems are very challenging
tasks and require the huge efforts of the related

industry, research and regulatory authorities so as to bring the success. From an implementation design and engineering practice point of view, this book aims to be the ?rst single volume to provide a comprehensive and highly coherent treatment for multiple standards of mobile multimedia broadcasting by covering basic principles, algorithms, design trade-off, and well-compared implementation system examples. This book is organized into 4 parts with 22 chapters.

"This multiple-volume publications exhibits the most up-to-date collection of research results and recent discoveries in the transfer of knowledge access across the globe"--Provided by publisher.

The two-volume set LNCS 6753/6754 constitutes the refereed proceedings of the 8th International Conference on Image and Recognition, ICIAR 2011, held in Burnaby, Canada, in June 2011. The 84 revised full papers presented were carefully reviewed and selected from 147 submissions. The papers are organized in topical sections on image and video processing; feature extraction and pattern recognition; computer vision; color, texture, motion and shape; tracking; biomedical image analysis; biometrics; face recognition; image coding, compression and encryption; and applications.

This book provides a comprehensive examination of the use of MPEG-2, MPEG-4, MPEG-7, MPEG-21, and MPEG-A standards, providing a detailed

reference to their application. In this book, the authors address five leading MPEG standards: MPEG-2, MPEG-4, MPEG-7, MPEG-21, and MPEG-A, focusing not only on the standards themselves, but specifically upon their application (e.g. for broadcasting media, personalised advertising and news, multimedia collaboration, digital rights management, resource adaptation, digital home systems, and so on); including MPEG cross-breed applications. In the evolving digital multimedia landscape, this book provides comprehensive coverage of the key MPEG standards used for generation and storage, distribution and dissemination, and delivery of multimedia data to various platforms within a wide variety of application domains. It considers how these MPEG standards may be used, the context of their use, and how supporting and complementary technologies and the standards interact and add value to each other. Key Features: Integrates the application of five popular MPEG standards (MPEG-2, MPEG-4, MPEG-7, MPEG-21, and MPEG-A) into one single volume, including MPEG cross-breed applications Up-to-date coverage of the field based on the latest versions of the five MPEG standards Opening chapter provides overviews of each of the five MPEG standards Contributions from leading MPEG experts worldwide Includes an accompanying website with supporting material (www.wiley.com/go/angelides_mpeg) This

book provides an invaluable reference for researchers, practitioners, CTOs, design engineers, and developers. Postgraduate students taking MSc, MRes, MPhil and PhD courses in computer science and engineering, IT consultants, and system developers in the telecoms, broadcasting and publishing sectors will also find this book of interest. Springer Handbook of Power SystemsSpringer Nature

An introduction to the theory and techniques for achieving high quality network communication with the best possible bandwidth economy, this book focuses on network information flow with fidelity. Covering both lossless and lossy source reconstruction, it is illustrated throughout with real-world applications, including sensor networks and multimedia communications. Practical algorithms are presented, developing novel techniques for tackling design problems in joint network-source coding via collaborative multiple description coding, progressive coding, diversity routing and network coding. With systematic introductions to the basic theories of distributed source coding, network coding and multiple description coding, this is an ideal self-contained resource for researchers and students in information theory and network theory.

This comprehensive text/reference examines in depth the synergy between multimedia content analysis, personalization, and next-generation

networking. The book demonstrates how this integration can result in robust, personalized services that provide users with an improved multimedia-centric quality of experience. Each chapter offers a practical step-by-step walkthrough for a variety of concepts, components and technologies relating to the development of applications and services. Topics and features: introduces the fundamentals of social media retrieval, presenting the most important areas of research in this domain; examines the important topic of multimedia tagging in social environments, including geo-tagging; discusses issues of personalization and privacy in social media; reviews advances in encoding, compression and network architectures for the exchange of social media information; describes a range of applications related to social media.

"What a di?erence a year makes – 52 little weeks" This variation of the ?rst line from Dinah Washington's famous song, which originally reads, "What a di?erence a day makes - 24 little hours," brings it to the point: Accordingtoallexperts,thepress, andmostpeople'simpressionwearetoday in a serious economic recession. Less than one year ago, we practically lived on the "island of the blessed" (namely, at Networking 2008 that was held on the island of Singapore), or in the famous country where "milk and honey ?ow" (or "where wine and liquor

?ow"). This convenient situation has changed abruptly within less than 52 weeks. It looks like the same kind of problems has emerged in all areas – and the "Networking" area has, of course, been a?ected, too. Looking into the 2009 proceedings, however, you will immediately notice that the manuscripts are largely una?ected by any aspect of the economic c- sis (which should be a bit of a consolation). Apparently, research directions are dictated by a process that is all too sluggish in order to be quickly and radically changed by a "tsunami." Likewise, the conference itself was prepared in spite of such a crisis.

This book highlights the emerging field of intelligent computing and developing smart systems. It includes chapters discussing the outcome of challenging research related to distributed computing, smart machines and their security related research, and also covers next-generation communication techniques and the networking technologies that have the potential to build the future communication infrastructure. Bringing together computing, communications and other aspects of intelligent and smart computing, it contributes to developing a roadmap for future research on intelligent systems. This book constitutes the refereed proceedings of the 10th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking, NEW2AN 2010, held in conjunction with

the Third Conference on Smart Spaces, ruSMART 2009 in St. Petersburg, Russia, in August 2010. The 27 revised NEW2AN full papers are organized in topical sections on performance evaluation; performance modeling; delay-/disruption-tolerant networking and overlay systems; integrated wireless networks; resource management; and multimedia communications. The 14 revised ruSMART full papers are about smart spaces use cases; smart-M3 platform; and smart spaces solutions.

This important text addresses the latest issues in end-to-end resilient routing in communication networks. The work highlights the main causes of failures of network nodes and links, and presents an overview of resilient routing mechanisms, covering issues related to the Future Internet (FI), wireless mesh networks (WMNs), and vehicular ad-hoc networks (VANETs). Features: discusses FI architecture for network virtualization; introduces proposals for dedicated and shared protection in random failure scenarios and against malicious activities; describes measures for WMN survivability that allow for evaluation of performance under multiple failures; proposes a new scheme to enable proactive updates of WMN antenna alignment; includes a detailed analysis of the differentiated reliability requirements for VANET applications, with a focus on issues of multi?hop data delivery; reviews techniques for improving the stability of end-to-end

VANET communication paths based on multipath routing and anycast forwarding.

SAW devices are widely used in multitude of device concepts mainly in MEMS and communication electronics. As such, SAW based micro sensors, actuators and communication electronic devices are well known applications of SAW technology. For example, SAW based passive micro sensors are capable of measuring physical properties such as temperature, pressure, variation in chemical properties, and SAW based communication devices perform a range of signal processing functions, such as delay lines, filters, resonators, pulse compressors, and convolvers. In recent decades, SAW based low-powered actuators and microfluidic devices have significantly added a new dimension to SAW technology. This book consists of 20 exciting chapters composed by researchers and engineers active in the field of SAW technology, biomedical and other related engineering disciplines. The topics range from basic SAW theory, materials and phenomena to advanced applications such as sensors actuators, and communication systems. As such, in addition to theoretical analysis and numerical modelling such as Finite Element Modelling (FEM) and Finite Difference Methods (FDM) of SAW devices, SAW based actuators and micro motors, and SAW based micro sensors are some of the exciting applications presented in this

book. This collection of up-to-date information and research outcomes on SAW technology will be of great interest, not only to all those working in SAW based technology, but also to many more who stand to benefit from an insight into the rich opportunities that this technology has to offer, especially to develop advanced, low-powered biomedical implants and passive communication devices.

A thorough and rigorous analysis of electromagnetic fields in cavities This book offers a comprehensive analysis of electromagnetic fields in cavities of general shapes and properties. Part One covers classical deterministic methods to conclude resonant frequencies, modal fields, and cavity losses; quality factor; mode bandwidth; and the excitation of cavity fields from arbitrary current distributions for metal-wall cavities of simple shape. Part Two covers modern statistical methods to analyze electrically large cavities of complex shapes and properties. Electromagnetic Fields in Cavities combines rigorous solutions to Maxwell's equations with conservation of energy to solve for the statistics of many quantities of interest: penetration into cavities (and shielding effectiveness), field strengths far from and close to cavity walls, and power received by antennas within cavities. It includes all modes and shows you how to utilize fairly simple statistical formulae to apply to your particular problem, whether it's interference calculations, electromagnetic compatibility testing in reverberation chambers, measurement of shielding materials using multiple cavities, or efficiency of test

antennas. Electromagnetic Fields in Cavities is a valuable resource for researchers, engineers, professors, and graduate students in electrical engineering.
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Grounding is the fundamental measures to ensure the safeoperation of power systems, including power apparatus andcontrol/monitoring systems, and guarantee the personal safety.Grounding technology is an interdiscipline involving electricalengineering, high voltage technology, electric safety,electromagnetics, numerical analysis, and geologicalexploration Methodology and Technology for Power SystemGrounding: Covers all topics related to power system grounding Presents fundaments and theories of grounding systems Well balances technology and methodology related to groundingsystem design Helps to understand the grounding analysis softwares Highlights the advanced research works in the field ofgrounding systems Comprehensively introduces numerical analysis methods Discovers impulse ionization phenomenon of soil around thegrounding conductors Touches on lightning impulse characteristics of groundingdevices for towers and buildings As a comprehensive treatment of the topic, Methodology andTechnology for Power System Grounding is ideal for engineersand researchers in power system, lightning protection, andgrounding. The

book will also better equip postgraduates,
seniorundergraduate students in electrical engineering.
Although the existing layering infrastructure--used
globally for designing computers, data networks, and
intelligent distributed systems and which connects
various local and global communication services--is
conceptually correct and pedagogically elegant, it is now
well over 30 years old has started create a serious
bottleneck. Using Cross-Layer Techniques for
Communication Systems: Techniques and Applications
explores how cross-layer methods provide ways to
escape from the current communications model and
overcome the challenges imposed by restrictive
boundaries between layers. Written exclusively by well-
established researchers, experts, and professional
engineers, the book will present basic concepts, address
different approaches for solving the cross-layer problem,
investigate recent developments in cross-layer problems
and solutions, and present the latest applications of the
cross-layer in a variety of systems and networks.
The two volume set LNCS 10424 and 10425 constitutes
the refereed proceedings of the 17th International
Conference on Computer Analysis of Images and
Patterns, CAIP 2017, held in Ystad, Sweden, in August
2017. The 72 papers presented were carefully reviewed
and selected from 144 submissions The papers are
organized in the following topical sections: Vision for
Robotics; Motion and Tracking; Segmentation;
Image/Video Indexing and Retrieval; Shape
Representation and Analysis; Biomedical Image
Analysis; Biometrics; Machine Learning; Image

Restoration; and Poster Sessions.

"Professor Andreas F. Molisch, renowned researcher and educator, has put together the comprehensive book, Wireless Communications. The second edition, which includes a wealth of new material on important topics, ensures the role of the text as the key resource for every student, researcher, and practitioner in the field." —Professor Moe Win, MIT, USA Wireless communications has grown rapidly over the past decade from a niche market into one of the most important, fast moving industries. Fully updated to incorporate the latest research and developments, Wireless Communications, Second Edition provides an authoritative overview of the principles and applications of mobile communication technology. The author provides an in-depth analysis of current treatment of the area, addressing both the traditional elements, such as Rayleigh fading, BER in flat fading channels, and equalisation, and more recently emerging topics such as multi-user detection in CDMA systems, MIMO systems, and cognitive radio. The dominant wireless standards; including cellular, cordless and wireless LANs; are discussed. Topics featured include: wireless propagation channels, transceivers and signal processing, multiple access and advanced transceiver schemes, and standardised wireless systems. Combines mathematical descriptions with intuitive explanations of the physical facts, enabling readers to acquire a deep understanding of the subject. Includes new chapters on cognitive radio, cooperative communications and relaying, video coding, 3GPP Long Term Evolution, and WiMax; plus significant new

sections on multi-user MIMO, 802.11n, and information theory. Companion website featuring: supplementary material on 'DECT', solutions manual and presentation slides for instructors, appendices, list of abbreviations and other useful resources.

"This book spans a number of interdependent and emerging topics in streaming media, offering a comprehensive collection of topics including media coding, wireless/mobile video, P2P media streaming, and applications of streaming media"--Provided by publisher.

This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics (EEIC 2011) , held on June 20-22 , 2011, which is jointly organized by Nanchang University, Springer, and IEEE IAS Nanchang Chapter. The objective of EEIC 2011 Volume 2 is to provide a major interdisciplinary forum for the presentation of new approaches from Electrical engineering and controls, to foster integration of the latest developments in scientific research. 133 related topic papers were selected into this volume. All the papers were reviewed by 2 program committee members and selected by the volume editor Prof. Min Zhu. We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electrical engineering and controls.

This book examines how two distinct strands of research on autonomous robots, evolutionary robotics and humanoid robot research, are converging. The book will be valuable for

researchers and postgraduate students working in
the areas of evolutionary robotics and bio-inspired
computing.
Going beyond classic networking principles and
architectures for better wireless performance Written
by authors with vast experience in academia and
industry, Wireless Mesh Networks provides its
readers with a thorough overview and in-depth
understanding of the state-of-the-art in wireless
mesh networking. It offers guidance on how to
develop new ideas to advance this technology, and
how to support emerging applications and services.
The contents of the book follow the TCP/IP protocol
stack, starting from the physical layer. Functionalities
and existing protocols and algorithms for each
protocol layer are covered in depth. The book is
written in an accessible textbook style, and contains
supporting materials such as problems and
exercises to assist learning. Key Features: Presents
an in-depth explanation of recent advances and
open research issues in wireless mesh networking,
and offers concrete and comprehensive material to
guide deployment and product development
Describes system architectures and applications of
wireless mesh networks (WMNs), and discusses the
critical factors influencing protocol design Explores
theoretical network capacity and the state-of-the-art
protocols related to WMNs Surveys standards that
have been specified and standard drafts that are

being specified for WMNs, in particular the latest
standardization results in IEEE 802.11s, 802.15.5,
802.16 mesh mode, and 802.16 relay mode Includes
an accompanying website with PPT-slides, further
reading, tutorial material, exercises, and solutions
Advanced students on networking, computer
science, and electrical engineering courses will find
Wireless Mesh Networks an essential read. It will
also be of interest to wireless networking academics,
researchers, and engineers at universities and in
industry.

"This book is designed to provide readers with
relevant theoretical frameworks and latest technical
and institutional solutions for transcoding multimedia
in mobile and wireless networks"--Provided by
publisher.

This fully revised and expanded edition gives
readers the necessary understanding of image and
video processing concepts to contribute to this hot
technology's future advances. Important new topics
include introductory random processes, image
enhancement and analysis, and the new MPEG
scalable video coding standard.

This book describes the design of optical receivers
that use the most economical integration technology,
while enabling performance that is typically only
found in very expensive devices. To achieve this, all
necessary functionality, from light detection to digital
output, is integrated on a single piece of silicon. All

building blocks are thoroughly discussed, including photodiodes, transimpedance amplifiers, equalizers and post amplifiers.

A timely addition to the understanding of IMT-Advanced, this book places particular emphasis on the new areas which IMT-Advanced technologies rely on compared with their predecessors. These latest areas include Radio Resource Management, Carrier Aggregation, improved MIMO support and Relaying. Each technique is thoroughly described and illustrated before being surveyed in context of the LTE-Advanced standards. The book also presents state-of-the-art information on the different aspects of the work of standardization bodies (such as 3GPP and IEEE), making global links between them. Explores the latest research innovations to assess the future of the LTE standard Covers the latest research techniques for beyond IMT-Advanced such as Coordinated multi-point systems (CoMP), Network Coding, Device-to-Device and Spectrum Sharing Contains key information for researchers from academia and industry, engineers, regulators and decision makers working on LTE-Advanced and beyond

Radio systems capable of localization have emerging applications inhomeland security, law enforcement, emergency response, defensecommand and control, multi-robot coordination andvehicle-to-vehicle and vehicle-to-

pedestrian collision avoidance.In fact, high resolution localization is vital for manyapplications, including: traffic alert, emergency services, e.g.,indoor localization for firefighters, and battlefield command andcontrol. These systems promise to dramatically reduce society'svulnerabilities to catastrophic events and improve its quality ofof life. While work this important area is progressing, limited resourcesare available to support graduate students and researchers in thisimportant area. Specifically, a limited number of books has beenpublished in this area covering selected subjects. Thiscomprehensive handbook offers gaps of available localization bookspresenting in-depth coverage from fundamentals of coordinates toadvanced application examples.

This book provides the foundations for understanding hardware security and trust, which have become major concerns for national security over the past decade. Coverage includes issues related to security and trust in a variety of electronic devices and systems related to the security of hardware, firmware and software, spanning system applications, online transactions and networking services. This serves as an invaluable reference to the state-of-the-art research that is of critical significance to the security of and trust in, modern society's microelectronic-supported infrastructures. This handbook offers a comprehensive source for

electrical power professionals. It covers all elementary topics related to the design, development, operation and management of power systems, and provides an insight from worldwide key players in the electrical power systems industry. Edited by a renowned leader and expert in Power Systems, the book highlights international professionals' longstanding experiences and addresses the requirements of practitioners but also of newcomers in this field in finding a solution for their problems. The structure of the book follows the physical structure of the power system from the fundamentals through components and equipment to the overall system. In addition the handbook covers certain horizontal matters, for example "Energy fundamentals", "High voltage engineering", and "High current and contact technology" and thus intends to become the major one-stop reference for all issues related to the electrical power system.

Contains the latest research, case studies, theories, and methodologies within the field of wireless technologies. This book shows how networking research and quality engineering can be combined to successfully manage the transmission quality when speech and video telephony is delivered in heterogeneous wireless networks. Nomadic use of services requires intelligent management of ongoing transmission, and to make the best of available resources many fundamental trade-offs must be considered. Network coverage versus throughput and reliability of a connection is one key aspect, efficiency versus robustness of signal compression is another. However, to successfully

manage services, user-perceived Quality of Experience
(QoE) in heterogeneous networks must be known, and
the perception of quality changes must be understood.
These issues are addressed in this book, in particular
focusing on the perception of quality changes due to
switching between diverse networks, speech and video
codecs, and encoding bit rates during active calls.
This brief presents several enhancement modules to
Multipath Transmission Control Protocol (MPTCP) in
order to support stable and efficient multipath
transmission with user cooperation in the Long Term
Evolution (LTE) network. The text explains how these
enhancements provide a stable aggregate throughput to
the upper-layer applications; guarantee a steady
goodput, which is the real application-layer perceived
throughput; and ensure that the local traffic of the relays
is not adversely affected when the relays are forwarding
data for the destination. The performance of the
proposed solutions is extensively evaluated using
various scenarios. The simulation results demonstrate
that the proposed modules can achieve a stable
aggregate throughput and significantly improve the
goodput by 1.5 times on average. The brief also shows
that these extensions can well respect the local traffic of
the relays and motivate the relay users to provide the
relaying service.
It gives me immense pleasure to introduce this timely
handbook to the research/-velopment communities in
the ?eld of signal processing systems (SPS). This is the
?rst of its kind and represents state-of-the-arts coverage
of research in this ?eld. The driving force behind

information technologies (IT) hinges critically upon the major advances in both component integration and system integration. The major breakthrough for the former is undoubtedly the invention of IC in the 50's by Jack S. Kilby, the Nobel Prize Laureate in Physics 2000. In an integrated circuit, all components were made of the same semiconductor material. Beginning with the pocket calculator in 1964, there have been many increasingly complex applications followed. In fact, processing gates and memory storage on a chip have since then grown at an exponential rate, following Moore's Law. (Moore himself admitted that Moore's Law had turned out to be more accurate, longer lasting and deeper in impact than he ever imagined.) With greater device integration, various signal processing systems have been realized for many killer IT applications. Further breakthroughs in computer sciences and Internet technologies have also catalyzed large-scale system integration. All these have led to today's IT revolution which has profound impacts on our lifestyle and overall prospect of humanity. (It is hard to imagine life today without mobiles or Internets!) The success of SPS requires a well-concerted integrated approach from mul- ple disciplines, such as device, design, and application.

This practical resource provides you with a comprehensive understanding of error control coding, an essential and widely applied area in modern digital communications. The goal of error control coding is to encode information in such a way that even if the channel (or storage medium) introduces errors, the receiver can correct the errors and recover the original

transmitted information. This book includes the most useful modern and classic codes, including block, Reed Solomon, convolutional, turbo, and LDPC codes.You find clear guidance on code construction, decoding algorithms, and error correcting performances. Moreover, this unique book introduces computer simulations integrally to help you master key concepts. Including a companion DVD with MATLAB programs and supported with over 540 equations, this hands-on reference provides you with an in-depth treatment of a wide range of practical implementation issues. Last few years have seen rapid acceptance of high-definition television (HDTV) technology around the world. This technology has been hugely successful in delivering more realistic television experience at home and accurate imaging for professional applications. Adoption of high definition continues to grow as consumers demand enhanced features and greater quality of content. Following this trend, natural evolution of visualisation technologies will be in the direction of fully realistic visual experience and highly precise imaging. However, using the content of even higher resolution and quality is not straightforward as such videos require significantly higher access bandwidth and more processing power. Therefore, methods for radical reduction of video bandwidth are crucial for realisation of high visual quality. Moreover, it is desirable to look into other ways of accessing visual content, solution to which lies in innovative schemes for content delivery and consumption. This book presents selected chapters covering technologies that will enable greater flexibility in

video content representation and allow users to access content from any device and to interact with it.

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