





specifications. The book will also aid in the design of devices and infrastructures from analog to digital television transmission - with analog transmission ceasing in early 2009 or before. \*The next generation of digital video - Blu-ray and HD-DVD thoroughly introduced \*All broadcast and satellite standards completely updated \*Essential information for the upcoming transition of television signals from analog to digital

**Home Area Networks and IPTV** May 05 2020 The field of Home Area Networks (HAN), a dedicated residential subset of LAN technologies for home-based use, is fast becoming the next frontier for the communications industry. This book describes the various technologies involved in the implementation of a HAN: high-speed Internet connections, indoor implementations, services, software, and management packages. It also reviews multimedia applications (which are increasingly the most important and complex aspects of most HANs) with a detailed description of IPTV technology. It highlights the main technologies used for HANs: information transmission by means of copper pairs, coaxial cables, fiber optics, and Wi-Fi radio systems, as well as the software systems necessary for the processing and management of these data communications. These technologies – examples of which include the well-known 802.11 family of standards, and less widespread applications such as the HomePlug powerline standard – are highly relevant to multimedia, remote healthcare, remote working, energy, and device management in the home. The book is written for engineers working in the field, or who are interested in high-speed communication technologies and their actual or potential use in the home or in the small – medium size enterprise (SME) commercial environment.

**Cyber and Digital Forensic Investigations** Mar 27 2022 Understanding the latest capabilities in the cyber threat landscape as well as the cyber forensic challenges and approaches is the best way users and organizations can prepare for potential negative events. Adopting an experiential learning approach, this book describes how cyber forensics researchers, educators and practitioners can keep pace with technological advances, and acquire the essential knowledge and skills, ranging from IoT forensics, malware analysis, and CCTV and cloud forensics to network forensics and financial investigations. Given the growing importance of incident response and cyber forensics in our digitalized society, this book will be of interest and relevance to researchers, educators and practitioners in the field, as well as students wanting to learn about cyber forensics.

**3D and HD Broadband Video Networking** Dec 12 2020 Recent years have seen an exponential increase in video and multimedia traffic transported over the Internet and broadband access networks. This timely resource addresses the key challenge facing many service providers today: effective bandwidth management for supporting high-quality video delivery. Written by a recognized expert in the field, this practical book describes ways to optimize video transmission over emerging broadband networks. Moreover, the book explores new wireless access networks that can enable video connectivity both inside and outside the residential premise.

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