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| 1. Record Nr.           | UNINA9910141256803321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Autore                  | Minoli Daniel <1952->                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Titolo                  | Linear and non-linear video and TV applications [[electronic resource] ]<br>: using IPv6 and IPv6 multicast / / Daniel Minoli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Descrizione fisica      | 1 online resource (422 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Disciplina              | 621.388/07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Soggetti                | Internet television<br>Digital video<br>Multicasting (Computer networks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Note generali           | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Nota di contenuto       | Linear and Non-Linear Video and TV Applications; CONTENTS; PREFACE; 1: Evolving Viewing Paradigms; 1.1 OVERVIEW OF THE EVOLVING ENVIRONMENT; 1.2 NEW CONTENT SOURCES AND SINKS; 1.3 TECHNOLOGY TRENDS (SNAPSHOT); 1.4 REVENUE-GENERATION TRENDS; 1.5 GENERAL INFRASTRUCTURE IMPLICATIONS FOR SERVICE PROVIDERS; 1.6 SCOPE OF THE INVESTIGATION; REFERENCES; APPENDIX 1A BACKGROUND STATISTICS AND FORECAST; 1A.1 2009 Viewing Habits Nielsen's Data; 1A.2 2011 Viewing Habits Nielsen's Data; 2: An Overview of IPv6; 2.1 OVERVIEW AND MOTIVATIONS; 2.2 ADDRESS CAPABILITIES; 2.2.1 IPv4 Addressing and Issues 2.2.2 IPv6 Address Space2.3 IPv6 PROTOCOL OVERVIEW; 2.4 HEADER COMPRESSION SCHEMES; 2.5 QUALITY OF SERVICE (QoS) IN IPv6; 2.6 MIGRATION STRATEGIES TO IPv6; 2.6.1 Technical Approaches; 2.6.2 Residential Broadband Services in an IPv6 Environment; 2.6.3 Deployment Opportunities; REFERENCES; APPENDIX 2A IPv6 RFCs; 3: An Overview of IP Multicast and Multicast Principles; 3.1 MULTICAST ENVIRONMENT; 3.2 BASIC MULTICAST CONCEPTS AND PROTOCOLS; 3.3 |

IP MULTICAST ADDRESSES; 3.4 INTERNET GROUP MANAGEMENT PROTOCOL (IGMP); REFERENCES; 4: IPv6 Multicast Approaches; 4.1 OVERVIEW; 4.2 IPv6 MULTICAST ADDRESSES 4.3 MEDIA ACCESS CONTROL (MAC) LAYER ADDRESSES ASPECTS4.4 SIGNALING; 4.5 ROUTING; 4.6 RENDEZVOUS POINT (RP) APPROACHES; 4.7 MULTICAST LISTENER DISCOVERY (MLD); 4.7.1 Overview of MLDv1; 4.7.2 Message Format; 4.7.3 Protocol Description; 4.7.4 State Transition for Nodes; 4.7.5 State Transition for Routers; 4.7.6 Overview of MLDv2; 4.7.7 Source Filtering; REFERENCES; 5: Evolving Traditional and Nontraditional TV Services; 5.1 BASIC SERVICES; 5.1.1 Distributed Content Service; 5.1.2 Interactive Services; 5.1.3 Public Interest Services; 5.2 ADVANCED SERVICES; 5.2.1 Linear TV with Trick Mode 5.2.2 Personal Video Recorder (PVR) Services5.2.3 Advertising Services; 5.2.4 Audience Measurement Information; 5.2.5 Interactive Services Requiring High Security; REFERENCE; 6: IPTV Systems and Technologies; 6.1 OVERVIEW AND STAKEHOLDER UNIVERSE; 6.1.1 Definitions; 6.1.2 Services under Consideration; 6.1.3 IPTV Stakeholder Universe; 6.1.4 Market Scope; 6.1.5 Multicast Mechanisms; 6.2 IPTV ARCHITECTURES AND ARCHITECTURAL REQUIREMENTS; 6.3 QoE AND QoS; 6.3.1 QoE Aspects; 6.3.2 QoS Aspects; 6.4 SERVICE SECURITY AND CONTENT PROTECTION; 6.5 IPTV NETWORKS; 6.5.1 IPTV Multicast Frameworks 6.5.2 Control and Signaling Aspects6.5.3 Content Delivery; 6.6 END SYSTEMS AND INTEROPERABILITY ASPECTS; 6.6.1 IPTV Terminal Devices; 6.6.2 Home Network; 6.6.3 Audience Information; 6.7 MIDDLEWARE, APPLICATION, AND CONTENT PLATFORMS; 6.7.1 IPTV Metadata; 6.7.2 IPTV Middleware Architecture; 6.7.3 Content Provisioning; 6.7.4 Service Discovery; 6.7.5 Service Navigation; 6.7.6 Electronic Program Guide; 6.7.7 User Profiles; 6.7.8 Protocol Support Machinery for Middleware, Application, and Content Platforms; 6.8 IPTV STANDARDS: A COMPREHENSIVE PROCESS; 6.8.1 ITU-T 6.8.2 ATIS IPTV Interoperability Forum (IIF)

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### Sommario/riassunto

"This up-to-date resource explores evolving trends in the TV and video services industry, including worldwide deployment of IPv6, IPTV services, web-produced video content, and the plethora of different screens available from TV to iPad. The coverage offers practical suggestions on implementing these technologies in service provider networks to support the cost-effective delivery of entertainment, and how new revenue-generating services can be developed. With this innovative, future-oriented guide, a variety of readers will become familiar with the current and prospective technology and take advantage of its resulting new trends"--

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| 2. Record Nr.           | UNINA9910490049803321                                                                                                                                                                |
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| Lingua di pubblicazione | Inglese                                                                                                                                                                              |
| Formato                 | Materiale a stampa                                                                                                                                                                   |
| Livello bibliografico   | Monografia                                                                                                                                                                           |
| Note generali           | Includes index.                                                                                                                                                                      |