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3.2 QoS Architectures 3.2.1 Policy-Based Architectures; 3.2.2 Dynamic Internetworking; 3.3 QoS Testing; 3.3.1 Virtual Distributed Testbed for Optimization and Coexistence of Heterogeneous Systems; 3.3.2 Practical Implementation of RRM Mechanisms in Support of QoS; 3.4 Conclusions; References; Chapter 4 Satellite Networks; 4.1 Introduction; 4.1.1 Broadcast and Multicast for Fixed and Mobile Networks; 4.1.2 The Digital Dividend; 4.1.3 High Altitude Platforms (HAPs); 4.1.4 Emerging Standards; 4.2 Functional Layers, Protocols, and Segments of Satellite Systems; 4.2.1 Functional Layers 4.2.2 Protocols 4.2.3 Ground Segment; 4.2.4 Common Equipment; 4.2.5 Convergent Satellite Platform; 4.2.6 Satellite Payload; 4.2.7 Network Topologies for HAP-Based Systems; 4.2.8 Networking Topologies for Converged Satellite Systems; 4.3 Interworking Between Satellite and Other Systems; 4.3.1 Mobility and Handover; 4.3.2 QoS; 4.3.3 Interworking Between Layer 2 and Layer 3 in an HAPS-Based System; 4.3.4 Security; 4.4 Conclusions; References; Chapter 5 Broadband Access Networks and Services; 5.1 Introduction; 5.1.1 Optical Access Solutions 5.1.2 Fixed Wireless Access Based on Radio over Fiber (RoF) 5.2 Broadband over Powerline; 5.2.1 Cognitive BPL; 5.2.2 Integration of Wireless Technologies with PLC; 5.3 Next Generation Broadband Access Platforms; 5.3.1 Business Roles; 5.3.2 Architectural and Protocol Reference Models; 5.3.3 Small and Medium Enterprises Support; 5.3.4 Service Enablers; 5.3.5 Authentication, Authorization, and Accounting; 5.3.6 Quality of Service and Connection Admission Control; 5.3.7 Quality of Experience; 5.3.8 Fixed Mobile Convergence; 5.3.9 The Residential Network and Gateway; 5.4 Conclusions; References Chapter 6 Services and Service Platforms

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## Sommario/riassunto

Based on cutting-edge research projects in the field, this book (part of a comprehensive 4-volume series) provides the latest details and covers the most impactful aspects of mobile, wireless, and broadband communications development. These books present key systems and enabling technologies in a clear and accessible manner, offering you a detailed roadmap the future evolution of next generation communications. Other volumes cover Radio Interfaces; Reconfigurability; and Ad Hoc Networks.

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