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Nota di contenuto	Front Cover; Content Networking; Copyright Page; Contents; Preface; About the Authors; Chapter 1. Introduction; 1.1 The Early Days of Content Delivery over the Internet; 1.2 The World Wide Web-Where It Came From and What It Is; 1.3 The Evolution of Content Networking; 1.4 The Diversity of Interests in Content Networking; Chapter 2. Content Transport; 2.1 Protocol Architecture and Design Paradigms of the Internet; 2.2 Hypertext Transport Protocol-HTTP; 2.3 Multicast Transport; Chapter 3. Caching Techniques for Web Content; 3.1 Local Caching; 3.2 Motivation and Goals of Web Caching 3.3 Basic Operation of a Shared Web Cache3.4 Cacheability Considerations; 3.5 Placing a Cache in the Network; 3.6 The Evolution of Caching Systems-Networks of Caches; 3.7 Performance; 3.8 Caching Challenges and Myths; Chapter 4. Caching Techniques for Streaming Media; 4.1 Streaming Media; 4.2 Protocols for Streaming Media; 4.3 Caching Techniques for Streaming Media; 4.4 Case Studies; Chapter 5. Navigating Content Networks; 5.1 The Domain Name System; 5.2 Layer 4-7 Request Switching; 5.3 Global Request Routing; 5.4 Case Studies;

Chapter 6. Peer-to-Peer Content Networks

6.1 What Are Peer-to-Peer Networks? 6.2 Technical Challenges in Peer-to-Peer Networks; 6.3 Case Studies; 6.4 Business Aspects; Chapter 7. Interactive Content Delivery- Instant Messaging; 7.1 Instant Messaging Defined; 7.2 Internet-Based Instant Messaging; 7.3 Convergence; Chapter 8. Beyond Web Surfing- Content Services; 8.1 What Is Driving Content Services?; 8.2 An Architecture for Content Services; 8.3 Example Content Services; 8.4 ICAP-The Internet Content Adaptation Protocol; 8.5 Open Pluggable Edge Services (OPES); 8.6 The Web Services Paradigm

8.7 Service Personalization and Service Convergence Chapter 9. Building Content Networks; 9.1 Campus and Enterprise Network Example; 9.2 Content Network Provider Example; 9.3 Content Distribution Network Example; Chapter 10. Standards Efforts; 10.1 The Role of Standards; 10.2 Content Networking Standards Bodies; 10.3 Content Networking Standards; Chapter 11. Summary and Outlook; 11.1 Content Networking Architecture Evolution; 11.2 The Future of Content Networking; Appendix-XML Basics; Glossary; RFC References; References; Index

Sommario/riassunto

As the Internet has grown, so have the challenges associated with delivering static, streaming, and dynamic content to end-users. This book is unique in that it addresses the topic of content networking exclusively and comprehensively, tracing the evolution from traditional web caching to today's open and vastly more flexible architecture. With this evolutionary approach, the authors emphasize the field's most persistent concepts, principles, and mechanisms--the core information that will help you understand why and how content delivery works today, and apply that knowledge in the future.<
