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Nota di contenuto	Front Cover; Interconnecting Smart Objects with IP: The Next Internet; Copyright Page; Dedication; About the Authors; Contents; Foreword; Preface; OBJECTIVES; STRUCTURE OF THE BOOK; Acknowledgements; SPECIAL ACKNOWLEDGMENTS; PART 1 THE ARCHITECTURE; CHAPTER 1 What Are Smart Objects?; 1.1 Where Do Smart Objects Come From?; 1.1.1 Embedded Systems; 1.1.2 Ubiquitous and Pervasive Computing; 1.1.3 Mobile Telephony; 1.1.4 Telemetry and Machine-to-machine Communication; 1.1.5 Wireless Sensor and Ubiquitous Sensor Networks; 1.1.6 Mobile Computing; 1.1.7 Computer Networking
	1.2 Challenges for Smart Objects1.2.1 Node-level Challenges; 1.2.2 Network-level Challenges; 1.2.3 Standardization; 1.2.4 Interoperability; 1.3 Conclusions; CHAPTER 2 IP Protocol Architecture; 2.1 Introduction; 2.2 From NCP to TCP/IP; 2.3 Fundamental TCP/IP Architectural Design Principles; 2.4 The Delicate Subject of Cross-layer Optimization; 2.5 Why Is IP Layering also Important for Smart Object Networks?; 2.6 Conclusions; CHAPTER 3 Why IP for Smart Objects?; 3.1 Interoperability; 3.2 An Evolving and Versatile Architecture; 3.3 Stability and Universality of the Architecture; 3.4 Scalability
	3.5 Configuration and Management3.6 Small Footprint; 3.7 What Are the Alternatives?; 3.8 Why Are Gateways Bad?; 3.8.1 Inherent Complexity; 3.8.2 Lack of Flexibility and Scalability; 3.9 Conclusions; CHAPTER 4 IPv6 for Smart Object Networks and the Internet of Things; 4.1 Introduction; 4.2 The Depletion of the IPv4 Address Space; 4.2.1 Current IPv4 Address Pool Exhaustion Rate; 4.3 NAT: A (Temporary) Solution to IPv4 Address Exhaustion; 4.4 Architectural Discussion; 4.5 Conclusions; CHAPTER 5 Routing; 5.1 Routing in IP Networks; 5.1.1 IP Routing and QoS
	5.1.2 IP Routing and Network Reliability5.2 Specifics of Routing in LLNs; 5.2.1 What Makes the Routing in LLNs Different?; 5.3 Layer 2 Versus Layer 3 ""Routing""; 5.3.1 Where Should Path Computation Be Performed?; 5.4 Conclusions; CHAPTER 6 Transport Protocols; 6.1 UDP; 6.1.1 Best-effort Datagram Delivery; 6.1.2 The UDP Header; 6.2 TCP; 6.2.1 Reliable Stream Transport; 6.2.2 The TCP Header; 6.2.3 TCP Options; 6.2.4 Round-trip Time Estimation; 6.2.5 Flow Control; 6.2.6 Congestion Control; 6.2.7 TCP States; 6.3 UDP for Smart Objects; 6.4 TCP for Smart Objects; 6.5 Conclusions
	CHAPTER 7 Service Discovery7.1 Service Discovery in IP Networks; 7.2 Service Discovery Protocols; 7.2.1 SLP; 7.2.2 Zeroconf, Rendezvous, and Bonjour; 7.2.3 UPnP; 7.3 Conclusions; CHAPTER 8 Security for Smart Objects; 8.1 The Three Properties of Security; 8.1.1 Confidentiality; 8.1.2 Integrity; 8.1.3 Availability; 8.2 ""Security"" by Obscurity; 8.3 Encryption; 8.4 Security Mechanisms for Smart Objects; 8.4.1 Security Policies for Smart Objects; 8.4.2 Link Layer Encryption; 8.5 Security Mechanisms in the IP Architecture; 8.5.1 IPsec; 8.5.2 TLS; 8.6 Conclusions
	CHAPTER 9 Web Services for Smart Objects
Sommarario/riassunto	Smart object technology, sometimes called the Internet of Things, is having a profound impact on our day-to-day lives. Interconnecting Smart Objects with IP is the first book that takes a holistic approach to the revolutionary area of IP-based smart objects. Smart objects are the intersection of networked embedded systems, wireless sensor networks, ubiquitous and pervasive computing, mobile telephony and telemetry, and mobile computer networking. This book consists of three parts, Part I focuses on the architecture of smart objects

networking, Part II covers the hardware, software, a
