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Titolo	Connection-oriented networks [[electronic resource] ] : SONET/SDH, ATM, MPLS, and optical networks // Harry G. Perros
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Connection-oriented Networks; About the Author; Contents; Preface; List of Abbreviations; 1 Introduction; 1.1 Communication Networks; 1.2 Examples of Connections; 1.2.1 An ATM Connection; 1.2.2 An MPLS Connection; 1.2.3 A Telephone Connection; 1.2.4 A Wavelength Routing Optical Network Connection; 1.3 Organization of the Book; 1.4 Standards Committees; 1.4.1 The International Telecommunication Union (ITU); 1.4.2 The International Organization for Standardization (ISO); 1.4.3 The American National Standards Institute (ANSI); 1.4.4 The Institute of Electrical and Electronics Engineering (IEEE) 1.4.5 The Internet Engineering Task Force (IETF) 1.4.6 The ATM Forum; 1.4.7 The MPLS and Frame Relay Alliance; 1.4.8 The Optical Internetworking Forum (OIF); 1.4.9 The DSL Forum; Problems; 2 SONET/SDH and the Generic Frame Procedure (GFP); 2.1 T1/E1; 2.1.1 Fractional T1/E1; 2.1.2 Unchannelized Framed Signal; 2.2 SONET/SDH; 2.3 The SONET STS-1 Frame Structure; 2.3.1 The Section, Line, and Path Overheads; 2.3.2 The STS-1 Section, Line, and Path Overheads;

2.3.3 The STS-1 Payload; 2.4 The SONET STS-3 Frame Structure; 2.5 SONET/SDH Devices; 2.6 Self-healing SONET/SDH Rings  
2.6.1 Two-fiber Unidirectional Path Switched Ring (2F-UPSR) 2.6.2 Two-fiber Bidirectional Line Switched Ring (2F-BLSR); 2.6.3 Four-fiber Bidirectional Line Switched Ring (4F-BLSR); 2.7 The Generic Framing Procedure (GFP); 2.7.1 The GFP Frame Structure; 2.7.2 GFP Client-independent Functions; 2.7.3 GFP Client-dependent Functions; 2.8 Data over SONET/SDH (DoS); 2.8.1 Virtual Concatenation; 2.8.2 Link Capacity Adjustment Scheme (LCAS); Problems; 3 ATM Networks; 3.1 Introduction; 3.2 The Structure of the Header of the ATM Cell; 3.3 The ATM Protocol Stack; 3.4 The Physical Layer  
3.4.1 The Transmission Convergence (TC) Sublayer 3.4.2 The Physical Medium-Dependent (PMD) Sublayer; 3.5 The ATM Layer; 3.6 The ATM Switch Architecture; 3.6.1 The Shared Memory Switch; 3.6.2 Scheduling Algorithms; 3.7 The ATM Adaptation Layer; 3.7.1 ATM Adaptation Layer 1 (AAL 1); 3.7.2 ATM Adaptation Layer 2 (AAL 2); 3.7.3 ATM Adaptation Layer 5 (AAL 5); 3.8 Classical IP and ARP Over ATM; 3.8.1 ATMARP; Problems; Appendix: Simulation Project: AAL 2; 4 Congestion Control in ATM Networks; 4.1 Traffic Characterization; 4.1.1 Types of Parameters; 4.1.2 Standardized Traffic Descriptors  
4.1.3 Empirical Models 4.1.4 Probabilistic Models; 4.2 Quality of Service (QoS) Parameters; 4.3 ATM Service Categories; 4.3.1 The CBR Service; 4.3.2 The RT-VBR Service; 4.3.3 The NRT-VBR Service; 4.3.4 The UBR Service; 4.3.5 The ABR Service; 4.3.6 The GFR Service; 4.3.7 ATM Transfer Capabilities; 4.4 Congestion Control; 4.5 Preventive Congestion Control; 4.6 Call Admission Control (CAC); 4.6.1 Classes of CAC Algorithms; 4.6.2 Equivalent Bandwidth; 4.6.3 The ATM Block Transfer (ABT) Scheme; 4.6.4 Virtual Path Connections; 4.7 Bandwidth Enforcement; 4.7.1 The Generic Cell Rate Algorithm (GCRA)  
4.7.2 Packet Discard Schemes

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## Sommario/riassunto

A thorough knowledge of modern connection-oriented networks is essential to understanding the current and near-future state of networking. This book provides a complete overview of connection-oriented networks, discussing both packet-switched and circuit-switched networks, which, though seemingly different, share common networking principles. It details the history and development of such networks, and defines their terminology and architecture, before progressing to aspects such as signaling and standards. There is inclusive coverage of SONET/SDH, ATM networks, Multi-Protocol Label Switchi

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2. Record Nr.	UNINA9910996485903321
Autore	Zhelev Paskal
Titolo	Bulgaria in the Global Economy : Dynamics, Challenges, and Opportunities // by Paskal Zhelev
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ISBN	9783031879234 3031879236
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Descrizione fisica	1 online resource (XIX, 217 p. 55 illus., 52 illus. in color.)
Collana	Societies and Political Orders in Transition, , 2511-221X
Disciplina	327.111
Soggetti	International economic relations Economic history Economic development International trade Europe - Politics and government International Political Economy' Economy-wide Country Studies Development Studies International Trade Economic History European Politics
Lingua di pubblicazione	Inglese
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Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Dependent Pathways: The Historical Evolution of Bulgaria's Economy -- Chapter 3. Bulgaria's Macroeconomic Foundations in a Turbulent Global Context -- Chapter 4. Bulgaria's Integration in the EU - Benefits and Challenges -- Chapter 5. Bulgaria and the Regional Cooperation in the Black Sea Region -- Chapter 6. Foreign Economic Relations of Bulgaria with Key Global Players -- Chapter 7. Bulgaria's Foreign Trade in Goods -- Chapter 8. Bulgaria's Foreign Trade in Services -- Chapter 9. The Role of Bulgaria in the Global Value Chains -- Chapter 10. Foreign Direct Investment in Bulgaria -- Chapter 11. Bulgaria's Participation in the International Labour Migration -- Chapter 12. Technological Advancement of the

Sommario/riassunto

This book presents an in-depth analysis of Bulgaria's integration into the global economy, analyzing the evolution, current status, and prospects for the country's positioning in the ever-complex system of international economic relations. The book provides a comprehensive examination of Bulgaria's economic trajectory from its historical development to its current role in the global economy. Presenting important periods throughout Bulgaria's economic evolution, including the planned economy era and the subsequent transition to a market-oriented system, the work analyzes the profound shifts and challenges faced by the country. The book examines the integration into the European Union, assessing both the benefits and risks associated with this pivotal relationship. Furthermore, it investigates Bulgaria's foreign economic partnerships, analyzing its interplay with major actors such as the USA, China, and Russia. Systematically exploring foreign trade in goods and services, participation in global value chains, foreign direct investment trends, and the complex dynamics of international labor migration, the book is based on rich empirical data and comparative analyses with similar economies. It addresses emerging trends, with dedicated chapters on green transition, technological advancement, and digital transformation. Finally, the book presents policy implications derived from Bulgaria's experiences and concludes with a forward-looking perspective on enhancing Bulgaria's global economic competitiveness, making it relevant to both academic audiences and policy practitioners.

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