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Nota di contenuto	Front cover; Title page; Copyright page; Table of contents; front matter; Preface; First chapter; 1. General topics; 1.1 Overview; 1.2 OSI reference model; 1.3 Systems engineering approach; 1.4 State transition structure; 1.5 Detailed design; 1.6 Media; 1.7 Physical connections; 1.8 Protocols; 1.9 Noise; 1.10 Cable spacing; 1.11 Ingress protection; 2. Copper cable; 2.1 Cable characteristics; 2.2 Cable selection; 2.3 Coaxial cables; 2.4 Twisted-pair cable; 2.5 Distribution/installation standards; 2.6 Connector standards; 2.7 Earthing/grounding; 2.8 Termination; 2.9 Transient protection 3. Fiber optics3.1 Introduction; 3.2 Fiber-optic cable components; 3.3 Fiber-optic cable parameters; 3.4 Types of optical fiber; 3.5 Basic cable types; 3.6 Connecting fibers; 3.7 Splicing trays/organizers and termination cabinets; 3.8 Troubleshooting; 3.9 Fiber installation rules; 3.10 Cleaning optical connectors; 3.11 Locating broken fibers; 4a. RS-232 overview; 4a.1 RS-232 interface standard (CCITT V.24 interface standard); 4a.2 Half-duplex operation of the RS-232 interface; 4a.3 Summary of EIA/TIA-232 revisions; 4a.4 Limitations; 4b. RS-232 troubleshooting; 4b.1 Introduction

4b.2 Typical approach4b.3 Test equipment; 4b.4 Typical RS-232 problems; 4b.5 Summary of troubleshooting; 5a. RS-485 overview; 5a.1 The RS-485 interface standard; 5b. RS-485 troubleshooting; 5b.1 Introduction; 5b.2 RS-485 vs RS-422; 5b.3 RS-485 installation; 5b.4 Noise problems; 5b.5 Test equipment; 5b.6 Summary; 6a. Current loop and RS-485 converters overview; 6a.1 The 20 mA current loop; 6a.2 Serial interface converters; 6b. Current loop and RS-485 converters troubleshooting; 6b.1 Troubleshooting converters; 7a. TCP/IP overview; 7a.1 Introduction
7a.2 Internet layer protocols (packet transport)7a.3 Host-to-host layer: end to end reliability; 7b. TCP/IP troubleshooting; 7b.1 Introduction; 7b.2 Common problems; 7b.3 Tools of the trade; 7b.4 Typical network layer problems; 7b.5 Transport layer problems; 8a. Modbus overview; 8a.1 General overview; 8a.2 Modbus protocol structure; 8a.3 Function codes; 8b. Modbus troubleshooting; 8b.1 Common problems and faults; 8b.2 Description of tools used; 8b.3 Detailed troubleshooting; 8b.4 Conclusion; 9. Fundamentals of DNP3; 9.1 Fundamental concepts; 9.2 Understanding the DNP3 message structure
9.3 Physical layer9.4 Data-link layer; 9.5 Transport layer (pseudo-transport); 9.6 Application layer message handling; 9.7 Application layer message functions; 10. Fundamentals of IEC 60870-5; 10.1 The IEC 60870-5 standard; 10.2 Protocol architecture; 10.3 Physical layer; 10.4 Data-link layer; 10.5 Application layer; 10.6 Information elements; 11a. Industrial Ethernet overview; 11a.1 Introduction; 11a.2 10 Mbps Ethernet; 11a.3 100 Mbps Ethernet; 11a.4 Gigabit Ethernet; 11a.5 Industrial Ethernet; 11b. Industrial Ethernet troubleshooting; 11b.1 Introduction; 11b.2 Common problems and faults
11b.3 Tools of the trade

Sommario/riassunto

The objective of this book is to outline the best practice in designing, installing, commissioning and troubleshooting industrial data communications systems. In any given plant, factory or installation there are a myriad of different industrial communications standards used and the key to successful implementation is the degree to which the entire system integrates and works together. With so many different standards on the market today, the debate is not about what is the best - be it Foundation Fieldbus, Profibus, Devicenet or Industrial Ethernet but rather about selecting the most a

2. Record Nr.	UNINA9910954754603321
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Titolo	Alexander Dubek Unknown (1921–1992) : The Life of a Slovak Hero // Josette Baer Hill, Stanislav Sikora
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ISBN	9783838271262 3838271262
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Nota di bibliografia	Includes bibliographical references (pages 253-271) and index.
Sommario/riassunto	Alexander Dubek is well-known, so one might think; nothing new can be written about him. Is this true? Dubek is the symbol of the Czechoslovak attempt to reform communism that gained worldwide admiration in 1968. The invasion of Warsaw Pact troops in the night of August 21, 1968 set a brutal end to the Prague Spring. Josette Baer's new biography focuses on Dubek's early years, his childhood in Soviet Kirghizia, his participation in the Slovak National Uprising in 1944 against Nazi Germany and the Slovak clerical-fascist government, and his career in the Slovak Communist Party in the late 1950s and early 1960s. It offers new insights into the political thought of the father of 'Socialism with a Human Face', based on archive material available to the Western reader for the first time. Who was Alexander Dubek—a naïve apparatchik, an independent thinker, a courageous liberator, or a political dreamer?