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the design of a batteryless,
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long-term patient
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which is capable of
efficient, remote powering
and reliable data
communication. Novel
architecture and design
methodologies are used to
transfer power with a low-
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link and data is transmitted by a reliable communication link. Additionally, an electro-mechanical solution is presented for tracking and monitoring the implantable system, while the patient is mobile.

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Teleservice is a common concept for distributed application services related to the use of telecommunication equipment, PCs, workstations and mainframes. Teleservices represent a diversity of

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applications related to
various user and vendor
cultures such as traditional
telecommunications services,
E-mail services, cooperative
work, applications,
multimedia applications,
mobile services and

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intelligent network services. The complexity and diversity of teleservices are increasing, but of greater importance is the change in the way in which teleservices are designed, delivered and maintained.

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Intelligent Data

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**Security and Trust Issues in
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SRv6 Network

Programming, beginning
with the challenges for
Internet Protocol
version 6 (IPv6) network

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development, describes
the background, roadmap
design, and
implementation of
Segment Routing over
IPv6 (SRv6), as well as
the application of this

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technology in
traditional and emerging
services. The book
begins with the
development of IP
technologies by focusing
on the problems

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encountered during MPLS
and IPv6 network
development, giving
readers insights into
the problems tackled by
SRv6 and the value of
SRv6. It then goes on to

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explain SRv6
fundamentals, including
SRv6 packet header
design, the packet
forwarding process,
protocol extensions such
as Interior Gateway

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Protocol (IGP), Border
Gateway Protocol (BGP),
and Path Computation
Element Protocol (PCEP)
extensions, and how SRv6
supports existing
traffic engineering

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(TE), virtual private
networks (VPN), and
reliability

requirements. Next, SRv6
network deployment is
introduced, covering the
evolution paths from

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existing networks to
SRv6 networks, SRv6
network deployment
processes, involved O&M
technologies, and
emerging 5G and cloud
services supported by

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SRv6. Bit Index Explicit
Replication IPv6
encapsulation (BIERv6),
an SRv6 multicast
technology, is then
introduced as an
important supplement to

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SRv6 unicast technology.
The book concludes with
a summary of the current
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industry and provides an
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SRv6 Network

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direction of SRv6. With
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technical support

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researchers in
scientific research
institutions and
universities. Authors:
Zhenbin Li is the Chief
Protocol Expert of
Huawei and member of the

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IETF IAB, responsible
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Scientists, Engineers
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volumes were carefully
reviewed and selected
from 1057 submissions.
The papers cover a wide
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to basic theory and

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techniques for data
science including
mathematical issues in
data science,
computational theory for
data science, big data
management and

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science, data
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management,
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driven healthcare, data-
driven management, data-
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driven smart
city/planet, data
marketing and economics,
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recommendation systems,
data-driven security,
data-driven business
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Cloud Data Center

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Network Architectures
and Technologies has
been written with the
support of Huawei's vast
technical knowledge and
experience in the data
center network (DCN)

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field, as well as its understanding of customer service requirements. This book describes in detail the architecture design, technical

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implementation, planning
and design, and
deployment suggestions
for cloud DCNs based on
the service challenges
DCNs encounter. It
starts by describing the

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overall architecture and technical evolution of DCNs, with the aim of helping readers understand the development of DCNs. It then proceeds to explain

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the design and implementation of cloud DCNs, including the service model of a single data center (DC), construction of physical and logical networks of

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DCs, construction of multiple DCNs, and security solutions of DCs. Next, this book dives deep into practices of cloud DCN deployment based on real-

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world cases to help
readers better
understand how to build
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openness and some of the
hottest forward-looking

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technologies. In
summary, you can use
this book as a reference
to help you to build
secure, reliable,
efficient, and open
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intended for technical professionals of enterprises, research institutes, information departments, and DCs, as well as teachers and students of computer

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network-related majors
in colleges and
universities. Authors
Lei Zhang Mr. Zhang is
the Chief Architect of
Huawei's DCN solution.
He has more than 20

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years' experience in
network product and
solution design, as well
as a wealth of expertise
in product design and
development, network
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network engineering
project implementation.

He has led the design
and deployment of more
than 10 large-scale DCNs
for Fortune Global 500
companies worldwide. Le

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Chen Mr. Chen is a
Huawei DCN Solution
Documentation Engineer
with eight years'
experience in developing
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products and solutions.

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He has participated in the design and delivery of multiple large-scale enterprise DCNs. Mr. Chen has written many popular technical document series, such as

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DCN Handbook and BGP
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This book discusses data
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importance of data
communication and
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IoT, it offers different
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knowledge and motivates
them to conduct research
in the area,
highlighting various
innovative ideas for
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frequently involve building custom solutions for specific jobs. Building custom systems is not a sustainable or economical approach; data center applications can take months to design and deploy, and there are

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ongoing issues with interoperability, support, scaling, and performance tuning to meet application requirements. Further, the provisioning and configuration of custom solutions is repetitive, manually

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intensive, and prone to errors.

**We discuss a new class of
factory preintegrated systems
combining servers, storage, and
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integrated systems are
discussed including offerings**

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communication. Novel architecture and design methodologies are used for low power and small area wireless communication link. Additionally, hermetically sealed packaging and in-vivo validation of the implantable device is presented.

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presents optical signal processing as solution to overcome the capacity crunch in communication networks. The book content ranges from the development of innovative materials and devices, such as graphene and slow light structures, to the use of

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nonlinear optics for secure quantum information processing and overcoming the classical Shannon limit on channel capacity and microwave signal processing. Although it holds the promise for a substantial speed improvement, today's communication

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infrastructure optics remains largely confined to the signal transport layer, as it lags behind electronics as far as signal processing is concerned. This situation will change in the near future as the tremendous growth of data traffic requires energy efficient and

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and logistics work and shows the structure of the drive solutions required for this purpose. The functionality of the mechanical and electronic elements of a drive system is described, and their basic dimensioning principles are explained.

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The authors also outline the engineering, reliability, and important aspects of the life cycle.

Cloud Data Center Network
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Communication Technologies and Application (ICIDCA 2021), are included in the book. The book focuses on the theory, design, analysis, implementation, and application of distributed systems and networks.

Intended primarily as a textbook for

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the students of computer science and engineering, electronics and communication engineering, master of computer applications (MCA), and those offering IT courses, the book provides a comprehensive coverage of the subject. Basic elements of communication such as data, signal

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and channel alongwith their characteristics such as bandwidth, bit internal and bit rate have been explained. Contents related to guided and unguided transmission media, Bluetooth wireless technology, developed for Personal Area Network (PAN) and issues related to routing

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covering popular routing algorithms namely RIP, OSPF and BGP, have been introduced in the book. Various aspects of data link control alongwith their application in HDLC network and techniques such as encoding, multiplexing and encryption/decryption are presented in detail. Characteristics

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and implementation of PSTN, SONET, ATM, LAN, PACKET RADIO network, Cellular telephone network and Satellite network have also been explained. Different aspects of IEEE 802.11 WLAN and congestion control protocols have also been discussed in the book. Key Features • Each

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chapter is divided into section and subsection to provide flexibility in curriculum design. • The text contains numerous solved examples, and illustrations to bring clarity to the subject and enhance its understanding. • Review questions given at the end of each chapter, are

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Data Communication and Networking, First Edition provides a solid, thorough overview of data communications and networking for Engineering Technology programs. This text covers information for one or more courses spanning digital communication systems, computer communication

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and networks, and data communications. It is specifically written and designed for engineering and engineering technology learners by using a systematic and visual approach with abundant tables, illustrations, and practical examples making it easy for students to

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comprehend concepts. Content begins with data communication, signal conversion and issues in data transmission. Each chapter includes an introduction, summary of key information, as well as practice questions and problems with answers. The text also includes coverage of

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