1. Record Nr. UNICAMPANIASUN0053547

Autore	Metcalf, Michael
Titolo	Fortran 95-2003 explained / Michael Metcalf, John Reid, Mlcolm Cohen
Pubbl/distr/stampa	Oxford, : Oxford university, 2004
ISBN	01-985269-3-8
Descrizione fisica	XVIII, 416 p. ; 24 cm.
Altri autori (Persone)	Reid, John Cohen, Malcolm
Soggetti	68-XX - Computer science [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910450093503321

Autore	Townes Charles H
Titolo	How the laser happened [[electronic resource]] : adventures of a scientist / / Charles H. Townes
Pubbl/distr/stampa	New York, : Oxford University Press, 1999
ISBN	9786610470853 1-282-36732-3 1-280-47085-2 0-19-802863-6 9786612367328 1-60256-702-6
Descrizione fisica	1 online resource (200 p.) : ill., facsim., ports
Disciplina	621.36/6/09
Soggetti	Lasers - History Masers - History Science and state - United States - History Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	1. The Light That Shines Straight; 2. Physics, Furman, Molecules, and Me; 3. Bell Labs and Radar, a (Fortunate) Detour from Physics; 4. Columbia to Franklin Park and Beyond; 5. Maser Excitement--And a Time for Reflection; 6. From Maser to Laser; 7. The Patent Game; 8. On Moon Dust, and Other Science Advice; 9. The Rains of Orion
Sommario/riassunto	Charles Townes invented the maser and the laser, and was a pioneer in the use of spectroscopic techniques to determine the atomic composition of stars. This is the memoir of a life devoted to scientific research.

3.

Record Nr.	UNINA9910154950903321
Autore	Beard Cory
Titolo	Wireless communication networks and systems / / Cory Beard, William Stallings
Pubbl/distr/stampa	Boston : , : Pearson, , [2016] ©2016
ISBN	1-292-10872-X
Edizione	[Global edition.]
Descrizione fisica	1 online resource (608 pages) : illustrations (some color)
Collana	Always Learning
Disciplina	621.384
Soggetti	Comunicació sense fil, Sistemes de Wireless communication systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Dedication -- Contents -- Preface -- Acknowledgments -- About the Authors -- Chapter 1 Introduction -- 1.1 Wireless Comes of Age -- 1.2 The Global Cellular Network -- 1.3 The Mobile Device Revolution -- 1.4 Future Trends -- 1.5 The Trouble With Wireless -- Part One Technical Background -- Chapter 2 Transmission Fundamentals -- 2.1 Signals for Conveying Information -- 2.2 Analog and Digital Data Transmission -- 2.3 Channel Capacity -- 2.4 Transmission Media -- 2.5 Multiplexing -- 2.6

Recommended Reading -- 2.7 Key Terms, Review Questions, and Problems -- Appendix 2A Decibels and Signal Strength -- Chapter 3 Communication Networks -- 3.1 Lans, Mans, and Wans -- 3.2 Switching Techniques -- 3.3 Circuit Switching -- 3.4 Packet Switching -- 3.5 Quality of Service -- 3.6 Recommended Reading -- 3.7 Key Terms, Review Questions, and Problems -- Chapter 4 Protocols and the TCP/IP Suite -- 4.1 The Need for a Protocol Architecture -- 4.2 The TCP/IP Protocol Architecture -- 4.3 The OSI Model -- 4.4 Internetworking -- 4.5 Recommended Reading -- 4.6 Key Terms, Review Questions, and Problems -- Appendix 4A Internet Protocol -- Appendix 4B Transmission Control Protocol -- Appendix 4C User Datagram Protocol -- Part Two Wireless Communication Technology -- Chapter 5 Overview of Wireless Communication -- 5.1 Spectrum Considerations -- 5.2 Line-Of-Sight Transmission -- 5.3 Fading in the Mobile Environment -- 5.4 Channel Correction Mechanisms -- 5.5 Digital Signal Encoding Techniques -- 5.6 Coding and Error Control -- 5.7 Orthogonal Frequency Division Multiplexing (OFDM) -- 5.8 Spread Spectrum -- 5.9 Recommended Reading -- 5.10 Key Terms, Review Questions, and Problems -- Chapter 6 The Wireless Channel -- 6.1 Antennas -- 6.2 Spectrum Considerations -- 6.3 Line-Of-Sight Transmission -- 6.4 Fading in the Mobile Environment.
6.5 Channel Correction Mechanisms -- 6.6 Recommended Reading -- 6.7 Key Terms, Review Questions, and Problems -- Chapter 7 Signal Encoding Techniques -- 7.1 Signal Encoding Criteria -- 7.2 Digital Data, Analog Signals -- 7.3 Analog Data, Analog Signals -- 7.4 Analog Data, Digital Signals -- 7.5 Recommended Reading -- 7.6 Key Terms, Review Questions, and Problems -- Chapter 8 Orthogonal Frequency Division Multiplexing -- 8.1 Orthogonal Frequency Division Multiplexing -- 8.2 Orthogonal Frequency Division Multiple Access (OFDMA) -- 8.3 Single-Carrier FDMA -- 8.4 Recommended Reading -- 8.5 Key Terms, Review Questions, and Problems -- Chapter 9 Spread Spectrum -- 9.1 The Concept of Spread Spectrum -- 9.2 Frequency Hopping Spread Spectrum -- 9.3 Direct Sequence Spread Spectrum -- 9.4 Code Division Multiple Access -- 9.5 Recommended Reading -- 9.6 Key Terms, Review Questions, and Problems -- Chapter 10 Coding and Error Control -- 10.1 Error Detection -- 10.2 Block Error Correction Codes -- 10.3 Convolutional Codes -- 10.4 Automatic Repeat Request -- 10.5 Recommended Reading -- 10.6 Key Terms, Review Questions, and Problems -- Part Three Wireless Local and Personal Area Networks -- Chapter 11 Wireless LAN Technology -- 11.1 Overview and Motivation -- 11.2 IEEE 802 Architecture -- 11.3 IEEE 802.11 Architecture and Services -- 11.4 IEEE 802.11 Medium Access Control -- 11.5 IEEE 802.11 Physical Layer -- 11.6 Gigabit Wi-Fi -- 11.7 Other IEEE 802.11 Standards -- 11.8 IEEE 802.11I Wireless LAN Security -- 11.9 Recommended Reading -- 11.10 Key Terms, Review Questions, and Problems -- Appendix 11A Scrambling -- Chapter 12 Bluetooth and IEEE 802.15 -- 12.1 The Internet of Things -- 12.2 Bluetooth Motivation and Overview -- 12.3 Bluetooth Specifications -- 12.4 Bluetooth High Speed and Bluetooth Smart -- 12.5 IEEE 802.15 -- 12.6 ZigBee -- 12.7 Recommended Reading.
12.8 Key Terms, Review Questions, and Problems -- Part Four Wireless Mobile Networks and Applications -- Chapter 13 Cellular Wireless Networks -- 13.1 Principles of Cellular Networks -- 13.2 First-Generation Analog -- 13.3 Second-Generation TDMA -- 13.4 Second-Generation CDMA -- 13.5 Third-Generation Systems -- 13.6 Recommended Reading -- 13.7 Key Terms, Review Questions, and Problems -- Chapter 14 Fourth Generation Systems and LTE-Advanced -- 14.1 Purpose, Motivation, and Approach to 4G -- 14.2 LTE

Architecture -- 14.3 Evolved Packet Core -- 14.4 LTE Resource Management -- 14.5 LTE Channel Structure and Protocols -- 14.6 LTE Radio Access Network -- 14.7 LTE-Advanced -- 14.8 Recommended Reading -- 14.9 Key Terms, Review Questions, and Problems -- Chapter 15 Mobile Applications and Mobile IP -- 15.1 Mobile Application Platforms -- 15.2 Mobile App Development -- 15.3 Mobile Application Deployment -- 15.4 Mobile IP -- 15.5 Recommended Reading -- 15.6 Key Terms, Review Questions, and Problems -- Appendix 15A Internet Control Message Protocol -- Appendix 15B Message Authentication -- Chapter 16 Long Range Communications -- 16.1 Satellite Parameters and Configurations -- 16.2 Satellite Capacity Allocation -- 16.3 Satellite Applications -- 16.4 Fixed Broadband Wireless Access -- 16.5 WiMAX/IEEE 802.16 -- 16.6 Smart Grid -- 16.7 Recommended Reading -- 16.8 Key Terms, Review Questions, and Problems -- References -- Index.

Sommario/riassunto

For courses in wireless communication networks and systems A Comprehensive Overview of Wireless Communications Wireless Communication Networks and Systems covers all types of wireless communications, from satellite and cellular to local and personal area networks. Organized into four easily comprehensible, reader-friendly parts, it presents a clear and comprehensive overview of the field of wireless communications. For those who are new to the topic, the book explains basic principles and fundamental topics concerning the technology and architecture of the field. Numerous figures and tables help clarify discussions, and each chapter includes a list of keywords, review questions, homework problems, and suggestions for further reading. The book includes an extensive online glossary, a list of frequently used acronyms, and a reference list. A diverse set of projects and other student exercises enables instructors to use the book as a component in a varied learning experience, tailoring courses to meet their specific needs. .

4. Record Nr. UNINA9910491028203321

Titolo	Atlas of Clinical PET-CT in Treatment Response Evaluation in Oncology / / edited by Stefano Fanti, Gopinath Gnanasegaran, Ignasi Carrió
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-68858-5 9783030688570
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (483 pages)
Collana	Medicine Series
Disciplina	616.99407575
Soggetti	Nuclear medicine Oncology Nuclear Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	PART I General Chapters: Introduction to Treatment response evaluation: Science and Practice -- CT in Treatment response evaluation – Overview -- MRI & Diffusion weighted MRI in Treatment response evaluation- Overview -- PET & PET-CT in Treatment response evaluation-Overview -- Conventional Radiological Techniques and PET-CT in Treatment response evaluation in post-surgical setting -- Conventional Radiological Techniques and PET-CT in Treatment response evaluation in chemotherapy setting -- Conventional Radiological Techniques and PET-CT in Treatment response evaluation in radiation oncology -- Conventional Radiological Techniques and PET-CT in Treatment response evaluation in Immunotherapy settings -- Treatment response evaluation of bone metastases using 18F-NaF -- How to report PET-CT scans in post therapy scenarios: Do’s and don’ts -- PART II Atlas Articles: 18F-FDG & Non FDG PET-CT in Treatment response evaluation in Head and neck cancer -- 18F-FDG & Non FDG PET-CT in Treatment response evaluation in lung cancer -- 18F-FDG & Non FDG PET-CT in Treatment response evaluation in neuro-oncology -- 18F-FDG & Non FDG PET-CT in Treatment response evaluation in hepatobiliary cancer -- 18F-FDG & Non FDG PET-CT in Treatment response evaluation in gastroesophageal cancer -- 18F-FDG

& Non FDG PET-CT in Treatment response evaluation in Lymphoma and Non-hodgkins lymphoma -- 18F-FDG & Non FDG PET-CT in Treatment response evaluation in breast cancer -- 18F-FDG, 18F-Choline & 68Ga-PSMA PET-CT in Treatment response evaluation in prostate cancer -- 18F-FDG & Non FDG PET-CT in Treatment response evaluation in gynaecological cancers -- 18F-FDG & Non FDG PET-CT in Treatment response evaluation in colorectal cancer -- 18F-FDG & Non FDG PET-CT in Treatment response evaluation in soft tissue sarcomas -- FDG & Non FDG PET-CT in Treatment response evaluation in malignant melanoma -- 18F-FDG & Non FDG PET-CT in Treatment response evaluation in myeloma -- FDG PET-CT & 18F-NaF in Treatment response evaluation in bone metastases and bone tumours -- 18F-FDG & Non FDG PET-CT in Assessment of treatment response in paediatric oncology -- 68Ga-DOTA PET-CT in Treatment response evaluation in NETs -- 18F-DOPA PET-CT in Treatment response evaluation -- 18F-FLT PET-CT in Treatment response evaluation -- Brain PET-CT in Treatment response evaluation.

Sommario/riassunto

This text atlas is a superb guide to the use of PET-CT for the evaluation of treatment response in oncology patients based on its ability to assess tumor metabolic status. The first part of the book explains the role of PET-CT in response evaluation in different treatment settings. For comparison, overviews of the value and limitations of CT alone, PET alone, and anatomical and functional MRI are included. Guidance is also provided on the reporting of PET-CT scans in post-therapy scenarios. The second part of the book describes and illustrates the use of PET-CT with FDG and other tracers to assess the treatment response of malignancies at different anatomic sites. Featuring a wealth of images, informative case-based discussion, and evidence-based teaching points, these disease-specific chapters clearly demonstrate the key role that PET-CT can play in distinguishing early responders from patients who are non-responders or are resistant to treatment. Prompt and accurate evaluation of treatment response is vital as we enter the era of individualized medicine, and this atlas will persuade readers of the considerable advantages of PET-CT over conventional radiological and clinical methods.