1. Record Nr. UNICAMPANIAVAN00103130

Autore	Murawski, Roman
Titolo	The philosophy of mathematics and logic in the 1920s and 1930s in Poland / Roman Murawski ; translated from polish by Maria Kantor
Pubbl/distr/stampa	Basel, : Birkhäuser, : Springer, 2014
Titolo uniforme	Filozofia matematyki i logiki w polsce miedzywojennej
Descrizione fisica	XI, 228 p. ; 24 cm
Soggetti	01Axx - History of mathematics and mathematicians [MSC 2020] 03Axx - Philosophical aspects of logic and foundations [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9911020221903321

Titolo	Antennas for portable devices / / Zhi Ning Chen (editor)
Pubbl/distr/stampa	Chichester, : John Wiley, 2007
ISBN	9786610839438 9781280839436 1280839430 9780470319642 047031964X 9781601193704 160119370X 9780470319659 0470319658
Descrizione fisica	1 online resource (306 p.)
Altri autori (Persone)	ChenZhi Ning
Disciplina	621.3824
Soggetti	Antennas (Electronics) - Design and construction Wireless communication systems - Equipment and supplies - Design and construction
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Foreword -- Acknowledgements -- List of Contributors -- 1 Introduction (Zhi Ning Chen) -- References -- 2 Handset Antennas (Brian S. Collins) -- 2.1 Introduction -- 2.2 Performance Requirements -- 2.3 Electrically Small Antennas -- 2.4 Classes of Handset Antennas -- 2.5 The Quest for Efficiency and Extended Bandwidth -- 2.5.1 Handset Geometries -- 2.5.2 Antenna Position in the Handset -- 2.5.3 The Effect of the User -- 2.5.4 Antenna Volume -- 2.5.5 Impedance Behavior of a Typical Antenna in the Low Band -- 2.5.6 Fields and Currents on Handsets -- 2.5.7 Managing the Length / Bandwidth Relationship -- 2.5.8 The Effect on RF Efficiency of Other Components of the Handset -- 2.5.9 Specific Absorption Rate -- 2.5.10 Hearing Aid Compliance -- 2.5.11 Economic Considerations -- 2.6 Practical Design -- 2.6.1 Simulations -- 2.6.2 Materials and Construction -- 2.6.3 Recycling -- 2.6.4 Building the Prototype -- 2.6.5 Measurement -- 2.6.6 Design Optimization -- 2.7 Starting Points for Design and Optimization -- 2.7.1 External Antennas -- 2.7.2 Balanced Antennas -- 2.7.3 Antennas for Other Services -- 2.7.4 Dual-Antenna Interference Cancellation -- 2.7.5 Multiple Input, Multiple Output -- 2.7.6 Antennas for Lower-Frequency Bands / TV and Radio Services -- 2.8 The RF Performance of Typical Handsets -- 2.9 Conclusion -- References -- 3 RFID Tag Antennas (Xianming Qing and Zhi Ning Chen) -- 3.1 Introduction -- 3.2 RFID Fundamentals -- 3.2.1 RFID System Configuration -- 3.2.2 Classification of RFID Systems -- 3.2.3 Principles of Operation -- 3.2.4 Frequencies, Regulations and Standardization -- 3.3 Design Considerations for RFID Tag Antennas -- 3.3.1 Near-field RFID Tag Antennas -- 3.3.2 Far-field RFID Tag Antennas -- 3.4 Effect of Environment on RFID Tag Antennas -- 3.4.1 Near-field Tags -- 3.4.2 Far-field Tags -- 3.4.3 Case Study -- 3.5 Summary -- References -- 4 Laptop Antenna Design and Evaluation (Duixian Liu and Brian Gaucher) -- 4.1 Introduction -- 4.2 Laptop-Related Antenna Issues. 4.2.1 Typical Laptop Display Construction -- 4.2.2 Possible Antennas for Laptop Applications -- 4.2.3 Mechanical and Industrial Design Restrictions -- 4.2.4 LCD Surface Treatment in Simulations -- 4.2.5 Antenna Orientation in Display -- 4.2.6 The Difference between Laptop and Cellphone Antennas -- 4.2.7 Antenna Location Evaluations -- 4.3 Antenna Design Methodology -- 4.3.1 Modeling -- 4.3.2 Cut-and-Try -- 4.3.3 Measurements -- 4.4 PC Card Antenna Performance and Evaluation -- 4.5 Link Budget Model -- 4.6 An INF Antenna Implementation -- 4.7 Integrated and PC Card Solutions Comparison -- 4.8 Dualband Examples -- 4.8.1 An Inverted-F Antenna with Coupled Elements -- 4.8.2 A Dualband PCB Antenna with Coupled Floating Elements -- 4.8.3 A Loop Related Dualband Antenna -- 4.9 Remarks on WLAN Antenna Design and Evaluations -- 4.10 Antennas for Wireless Wide Area Network Applications -- 4.10.1 INF Antenna Height Effects on Bandwidth -- 4.10.2 A WWAN Dualband Example -- 4.11 Ultra-Wide Band Antennas -- 4.11.1 Description of the UWB Antenna -- 4.11.2 UWB Antenna Measurement Results -- References -- 5 Antenna Issues in Microwave Thermal Therapies (Koichi Ito and Kazuyuki Saito) -- 5.1 Microwave Thermal Therapies -- 5.1.1 Introduction -- 5.1.2 Classification by Therapeutic Temperature -- 5.1.3 Heating Schemes -- 5.2 Interstitial Microwave Hyperthermia -- 5.2.1 Introduction and Requirements -- 5.2.2 Coaxial-Slot Antenna --

5.2.3 Numerical Calculation -- 5.2.4 Performance of the Coaxial-Slot Antenna -- 5.2.5 Temperature Distributions Around the Antennas -- 5.3 Clinical Trials -- 5.3.1 Equipment -- 5.3.2 Treatment by Use of a Single Antenna -- 5.3.3 Treatment by Use of an Array Applicator -- 5.3.4 Results of the Treatment -- 5.4 Other Applications -- 5.4.1 Treatment of Brain Tumors -- 5.4.2 Intracavitary Microwave Hyperthermia for Bile Duct Carcinoma -- 5.5 Summary -- References -- 6 Antennas for Wearable Devices (Akram Alomainy, Yang Hao and Frank Pasveer) -- 6.1 Introduction -- 6.1.1 Wireless Body Area Networks.
6.1.2 Antenna Design Requirements for Wireless BAN/PAN -- 6.2 Modelling and Characterization of Wearable Antennas -- 6.2.1 Wearable Antennas for BANs/PANs -- 6.2.2 UWB Wearable Antennas -- 6.3 WBAN Radio Channel Characterization and Effect of Wearable Antennas -- 6.3.1 Radio Propagation Measurement for WBANs -- 6.3.2 Propagation Channel Characteristics -- 6.4 Case Study: A Compact Wearable Antenna for Healthcare Sensors -- 6.4.1 Application Requirements -- 6.4.2 Theoretical Antenna Considerations -- 6.4.3 Sensor Antenna Modelling and Characterization -- 6.4.4 Propagation Channel Characterization -- 6.5 Summary -- References -- 7 Antennas for UWB Applications (Zhi Ning Chen and Terence S.P. See) -- 7.1 UWB Wireless Systems -- 7.2 Challenges in UWB Antenna Design -- 7.3 State-of-the-Art Solutions -- 7.3.1 Frequency-Independent Designs -- 7.3.2 Planar Broadband Designs -- 7.3.3 Crossed and Rolled Planar Broadband Designs -- 7.3.4 Planar Printed PCB Designs -- 7.3.5 Planar Antipodal Vivaldi Designs -- 7.4 Case Study -- 7.4.1 Small Printed Antenna with Reduced Ground-Plane Effect -- 7.4.2 Wireless USB -- 7.5 Summary -- References -- Index.

Sommario/riassunto

Offers a comprehensive and practical guide to antenna design and engineering for portable devices Antennas are often the most bulky components in many portable wireless devices such as mobile phones. Whilst the demand for ever smaller and more powerful wireless devices increases, as does the importance of designing and engineering smaller antennas to fit these devices. Antennas for Portable Dev ices provides a complete and cutting-edge guide to the design and engineering of small antennas for portable electronic devices such as mobile phone handsets, laptop computers, RFID (radio frequency identification), microwave thermal therapies devices, wearable devices, and UWB (ultra-wideband) based consumer devices. This book addresses the practical engineering issues that antenna professionals have to deal with. It explains the immediate demands for existing systems; discusses the antenna technology for the latest and emerging applications, and gives comprehensive coverage of hot topics in the wireless industry. Issues including design considerations, engineering design, measurement setup and methodology, and practical applications are all covered in depth. Antennas for Portable Devices: . Covers antennas for all modern portable wireless devices from handsets, RFID tags, laptops, wearable sensors, UWB-based wireless USB dongles, and handheld microwave treatment devices. Explains how to design and engineer applications for miniaturization of antenna technology, utilising practical case studies to provide the reader with an understanding of systems and design skills.. Links the basic antenna theory, with design methodology, and engineering design.. Is amply illustrated with numerous figures and data tables of antenna designs to aid understanding.. Features contributions from industry and research experts in antenna technology and applications. This invaluable resource will provide a comprehensive overview of miniaturizing antenna technology for antenna engineers in industry, and R&D

organizations, graduate students, consultants, researchers, RF professionals, technical managers, as well as practitioners working in the area of consumer electronics, RF systems, wireless communications, or bio-medical devices.