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Autore	Varrall Geoffrey
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Collana	Artech House space technology and applications series
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Soggetti	Mobile communication systems Wireless communication systems Cell phone systems - Standards Electronic books.
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	5G and Satellite Spectrum, Standards, and Scale; Contents; Foreword; Acknowledgments; 1 Sixty Years of Satellites; 1.1 Beginning with the Beach Ball; 1.2 Russia, China, and the United States: Red Rockets and Yellow Rockets; 1.3 Space Regulation and Deregulation; 1.4 The Beach in Bournemouth; 1.5 Satellites for Autonomous Transport Systems and the Internet of Moving Objects; 1.6 Satellites and 5G: A Natural Convergence?; 1.7 The NEWLEOs; 1.8 Regulatory and Competition Policy; 1.9 A Summary of Orbit Options and Performance Comparisons. 1.10 Satellite Technology Innovation: Fractional Beamwidth Antennas1. 11 FDD Dual-Use, Dual-Band Spectrum with Fractional Beamwidth Antennas; 1.12 Present Launch Plans: Intelsat and Eutelsat; 1.13 People and Politics in the Satellite Industry; 1.14 Third Time Lucky for Hybrid Satellite Terrestrial Networks?; 1.15 Scale and Standards Bandwidth; 1.16 Channel Bandwidths and Passbands: Satellite and 5G Band Plan Implications; 1.17 Impact of NEWLEOs Deployments: The Progressive Pitch Sales Pitch. 1.18 Flat VSATS: An Alternative to Progressive Pitch as a Mechanism for Cosharing 5G and Satellite Spectrum1.19 Coexistence and Competition, Subsidies, and Universal Service Obligations; 1.20 U.S -- Competition and Spectral Policy; 1.21 Satellites and Local Area Connectivity; 1.22

Summary; References; 2 The Race for Space Spectrum; 2.1 Why Spectrum Is Important; 2.2 5G Coexistence with Satellite TV and Other Satellite Systems; 2.3 Radar Frequency Band Designations; 2.4 5G Standards and Spectrum; 2.5 Existing LEO L-Band, Ku-Band, K-Band, and Ka-Band Allocations. 2.6 Benefits of Higher Frequencies/Shorter Wavelengths 2.7 Spectrum: Why Ka-Band Is Useful; 2.8 The Impact of Standards on 5G Spectrum Requirements; 2.9 Multiplexing, Modulation and Coexistence; 2.10 Regional Spectrum Policy; 2.11 5G and Satellite at UHF; 2.12 5G in Refarmed Spectrum; 2.13 The FCC, the ITU, and Sovereign Nation Regulation: Similarities and Differences Between Terrestrial and Nonterrestrial Networks; 2.14 Air to Ground for Public Protection and Disaster Relief: AT & T FirstNet, BT EE, and the Australian NBN as Examples of LTE and Longer-Term 5G Emergency Service Radio Networks. 2.15 GSO and Non-GSO Terminology 2.16 Why Country and Regional Differences Are Important for Global Connectivity; 2.17 RF Power and Interference; 2.18 The Importance of Intersatellite Switching; 2.19 Landing Rights; 2.20 Interference Management; 2.21 Spectrum Access Rights; 2.22 NGSO to GSO Interference Mitigation; 2.23 FirstNet and the 2012 Spectrum Act; 2.24 Fiber Access and Wireless Access Rights; 2.25 Fixed Point-to-Point and Point-to-Multipoint Microwave Backhaul; 2.26 Legacy LEO and GSO Operator Spectrum; 2.27 V-Band and W-Band; 2.28 Summary; References; 3 Link Budgets and Latency.

Sommario/riassunto

This new resource presents the emerging role of Low Earth Orbit (LEO), Medium Earth Orbit (MEO), and Geostationary satellites (GSO) as a delivery option for backhaul and wide area rural and urban mobile broadband and fixed access. The book offers insight into recently established Non Terrestrial Network standards. Readers learn which bands will need to be supported in next generation 5G and satellite devices and networks and how the bands will be characterized. Channel spacing, guard bands, FDD or TDD, out of band emission limits, and in band performance requirements are discussed. The book discusses what interference issues will arise from new band allocations including co-shared allocations and how interference will be mitigated in and between next generation terrestrial and satellite 5G networks. Readers learn how modulation choices will affect co-existence issues. The book discusses the design, performance, cost, and test implications of integrating next generation satellite physical and MAC layers with Release 16 and 17 5G standards and explores how these emerging spectrum and standards map on to IOT and MTC use cases in specific vertical markets. Readers learn how new active and passive antennas in the K bands and V and W band (E band) impact the satellite link budget and satellite delivery cost economics.

2. Record Nr.	UNINA9910796545603321
Titolo	From Renaissance to Baroque : change in instruments and instrumental music in the seventeenth century : proceedings of the National Early Music Association Conference held, in association with the Department of Music, University of York and the
Pubbl/distr/stampa	Abingdon, Oxon ; ; New York : , : Routledge, , 2016
ISBN	1-351-56625-3 1-351-56626-1 1-315-09382-0
Descrizione fisica	1 online resource (342 pages) : illustrations
Altri autori (Persone)	HolmanPeter <1946-> WainwrightJonathan P. <1961->
Disciplina	784.09032
Soggetti	Musical instruments - History - 17th century Instrumental music - 17th century - History and criticism
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	First published 2005 by Ashgate Publishing.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Baptiste's hautbois : the metamorphosis from shawm to hautboy in France, 1620-1670 / Bruce Haynes -- A commentary on the Letter by Michel de La Barre concerning the history of musettes and hautboys / Marc Ecochard -- The woodwind instruments of Richard Haka (1645/6-1705) / Jan Bouterse -- Basstals or cartoons : the search for a transitional fagott / Graham Lyndon-Jones -- The iconographic background to the seventeenth-century recorder / Anthony Rowland-Jones -- The Renaissance flute in the seventeenth century / Nancy Hadden -- The flute at Dresden : ramifications for eighteenth-century woodwind performance in Germany / Mary Oleskiewicz -- How did seventeenth-century English violins really sound? / Peter Trevelyan -- The development of French lute style 1600-1650 / Matthew Spring -- The early air de cour, the theorbo, and the continuo principle in France / Jonathan Le Cocq -- From stops organical to stops of variety : the English organ from 1630 to 1730 / Dominic Gwynn -- Upgrading from consorts to orchestra at the Wurttemberg court / Samantha Owens -- From violin band to orchestra / Peter Holman -- Organological Gruyhre

/ Jeremy Montagu.

Sommario/riassunto

"Historians of instruments and instrumental music have long recognised that there was a period of profound change in the seventeenth century, when the consorts or families of instruments developed during the Renaissance were replaced by the new models of the Baroque period. Yet the process is still poorly understood, in part because each instrument has traditionally been considered in isolation, and changes in design have rarely been related to changes in the way instruments were used, or what they played. The essays in this book are by distinguished international authors that include specialists in particular instruments together with those interested in such topics as the early history of the orchestra, iconography, pitch and continuo practice. The book will appeal to instrument makers and academics who have an interest in achieving a better understanding of the process of change in the seventeenth century, but the book also raises questions that any historically aware performer ought to be asking about the performance of Baroque music. What sorts of instruments should be used' At what pitch' In which temperament' In what numbers and/or combinations' For this reason, the book will be invaluable to performers, academics, instrument makers and anyone interested in the fascinating period of change from the 'Renaissance' to the 'Baroque'."--Provided by publisher.
