1. Record Nr. UNINA9910460780103321

Titolo	Historic wooden architecture in Europe and Russia : evidence, study and restoration / / edited by Evgeny Khodakovsky and Siri Skjold Lexau
Pubbl/distr/stampa	Basel, Switzerland : , : Birkhauser, , 2016 ©2016
ISBN	3-0356-0542-4
Descrizione fisica	1 online resource (184 p.)
Classificazione	ZH 4400
Disciplina	721.0448
Soggetti	Wooden-frame buildings - Europe - History Wooden-frame buildings - Russia (Federation) - History Historic buildings - Conservation and restoration - Europe Historic buildings - Conservation and restoration - Russia (Federation) Electronic books.
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	Front matter -- Inhalt -- Wood in the Architecture of Europe and Russia: National Specifics and International Research -- Wooden Churches in Viking and Medieval Norway: Two Geometric and Static Strategies -- Timber Churches in Medieval England: A Preliminary Study -- The Archaeological Study of the Wooden Religious Architecture of Medieval Novgorod -- Viking and Medieval Wooden Churches in Norway as Described in Contemporary Texts -- Written Sources for English Medieval Timber Architecture -- Archives and Historical Documents in Contemporary Research of the Wooden Architecture of the Russian North -- Stave Church Research and the Norwegian Stave Church Programme: New Findings - New Questions -- Traditional Structures in Russian Wooden Architecture: Technical Aspects -- Wooden Elements in the Stone Architecture of Medieval Novgorod -- Aspects of Bohemian and Swedish Wooden Bell Towers -- The Restoration of Wooden Architectural Monuments in Russia. Contemporary Methods and Approaches -- The Church of the Transfiguration at Kizhi Pogost – Some Reflections on the Building and its Restoration -- Historic Wooden Architecture in Europe and Russia:

Sommario/riassunto

Das Fachbuch präsentiert den aktuellen Forschungsstand hinsichtlich zeitgemäßer Methoden und Verfahren beim Umgang mit historischen Holzbauten. Es fasst die Ergebnisse einer Tagung von Bauforschern zusammen, die Ende 2014 in Prag stattgefunden hat und widmet sich den drei Hauptaspekten beim Umgang mit historischen Holzbauten: Bauforschung, Architekturgeschichte sowie Instandsetzung und Unterhalt.Vierzehn Forscher haben jahrhundertealte Holzstrukturen wie Kirchen, Bauernhöfe, Fachwerkhäuser und Blockhütten in Europa und Russland untersucht. Aus den gewonnenen Erkenntnissen entwickeln sie denkmalgerechte Maßnahmen zur Instandsetzung und zum Unterhalt von Holzbauten. Historische und aktuelle Fotografien sowie neu erstellte Zeichnungen dokumentieren die untersuchten Bauten. This collective monograph presents the current state of research regarding contemporary methods of dealing with historic timber structures in Scandinavia, the United Kingdom, Central Europe and Northwest Russia. The chapters are dedicated to the main aspects of the research and deal with archaeological evidence, written sources, the extant buildings themselves as evidence, as well as repair and maintenance. Researchers from four countries examine centuries-old timber structures that include churches, bell towers and dwellings in Europe and Russia. Based on the conclusions of these studies, they demonstrate various methods of archaeological, archival and empirical research and discuss appropriate measures of restoring and maintaining wooden structures. Historical and contemporary photographs along with new drawings richly document the buildings.

2. Record Nr. UNINA9911019471503321

Autore	Helszajn J (Joseph)
Titolo	The stripline circulator : theory and practice / / by J. Helszajn
Pubbl/distr/stampa	Hoboken, NJ, : J. Wiley & Sons, c2008
ISBN	9786612365416 9780470653036 0470653035 9781282365414 128236541X 9780470264201 0470264209 9780470264140 0470264144
Descrizione fisica	1 online resource (613 p.)
Collana	Wiley series in microwave and optical engineering
Disciplina	621.381/331
Soggetti	Circulators, Wave-guide - 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 (p. 565-577) and index.
Nota di contenuto	Preface -- 1. Architecture of Symmetrical Stripline Junction Circulators -- 2. Tensor Permeability in a Magnetic Insulator -- 3. Spatial Shape Demagnetizing Factors of Disk, Equilateral Triangle, and Irregular Hexagonal Magnetic Insulators -- 4. Scattering Matrix of m-Port Junction -- 5. Eigenvalue Adjustment of Three-Port Circulator -- 6. Impedance Matrix of Junction Circulator -- 7. The One-Port Topology of the Degree-1 and Degree-2 Terminated Circulator -- 8. Cutoff Space of Cloverleaf Resonators with Magnetic Walls -- 9. Standing Wave Solution of Wye Gyromagnetic Planar Resonator -- 10. Planar Resonators with Triplets of Radial and Circumferential Magnetic Walls -- 11. Unloaded Quality Factors of Junction Circulators -- 12. The Lumped Element Circulator -- 13. The Stripline Circulator Using a Gyromagnetic Planar Disk Resonator -- 14. Green's Function Description of Junction Circulator -- 15. Finite Element Formulation of Junction Circulator -- 16. Circulators Using Triangular and Irregular

Hexagonal Planar Resonators -- 17. Operation of the Tracking and Semitracking Stripline Circulators -- 18. Complex Gyrator Circuit of Negative Permeability Tracking and Semitracking Circulators -- 19. Synthesis of Wideband Planar Circulators Using Narrow Coupling Angles -- 20. Complex Gyrator Circuit of Three-Port Circulators Using Gyromagnetic Resonators with Sixfold Symmetry -- 21. Open-Circuit Parameters of Circulators Using Side-Coupled Wye Resonators: An Impedance Pole Approach -- 22. The Four-Port Single Junction Stripline Circulator -- 23. Frequency Responses of Quarter-Wave Coupled Reciprocal Stripline Junctions -- 24. Scattering Matrices of Junction Circulators with Chebyshev characteristics -- 25. Synthesis of Stepped Impedance transducers -- 26. Fabrication of UHF Circulators Using Irregular Hexagonal Gyromagnetic Resonators -- 27. Fabrication of Very Weakly and Weakly Magnetized Microstrip circulators -- 28. The Stripline Circulator: Theory and Practice.
Bibliography -- Index.

Sommario/riassunto

Stripline circulator theory and applications from the world's foremost authority The stripline junction circulator is a unique three-port non-reciprocal microwave junction used to connect a single antenna to both a transmitter and a receiver. Its operation relies on the interaction between an electron spin in a suitably magnetized insulator with an alternating radio frequency magnetic field. In its simplest form, it consists of a microwave planar gyromagnetic resonator symmetrically coupled by three transmission lines. This book explores the magnetic interaction involved in the stripline circulator's operation, the nature of the microwave resonator shape, and the network problem that arises in coupling the microwave resonator to the microwave circuit. The stripline circulator is an important device met across a wide range of industries, including wireless, military, radar, and satellite communications. The book's design tables are a unique feature, offering valuable design support. Written by an international authority on non-reciprocal microwave circuits and devices, the book is organized into logical blocks of chapters that focus on specific effects and circuit aspects of the stripline circulator. Among the highlights of coverage are: . Spatial shape demagnetizing factors of magnetic insulators. Standing wave solutions of wye gyromagnetic planar resonators. Lumped element circulators. Negative permeability tracking and semi-tracking circulators. Four-port single-junction circulators. Fabrication of very weakly and weakly magnetized microstrip circulators The final chapter explores important and continuing discrepancies between theoretical models and actual practice. For designers building circulators, isolators, and phase shifters; researchers working on the limitation of ferrite devices; and graduate students intending to work in the field, Dr. Helszajn's insights and perspectives are invaluable.