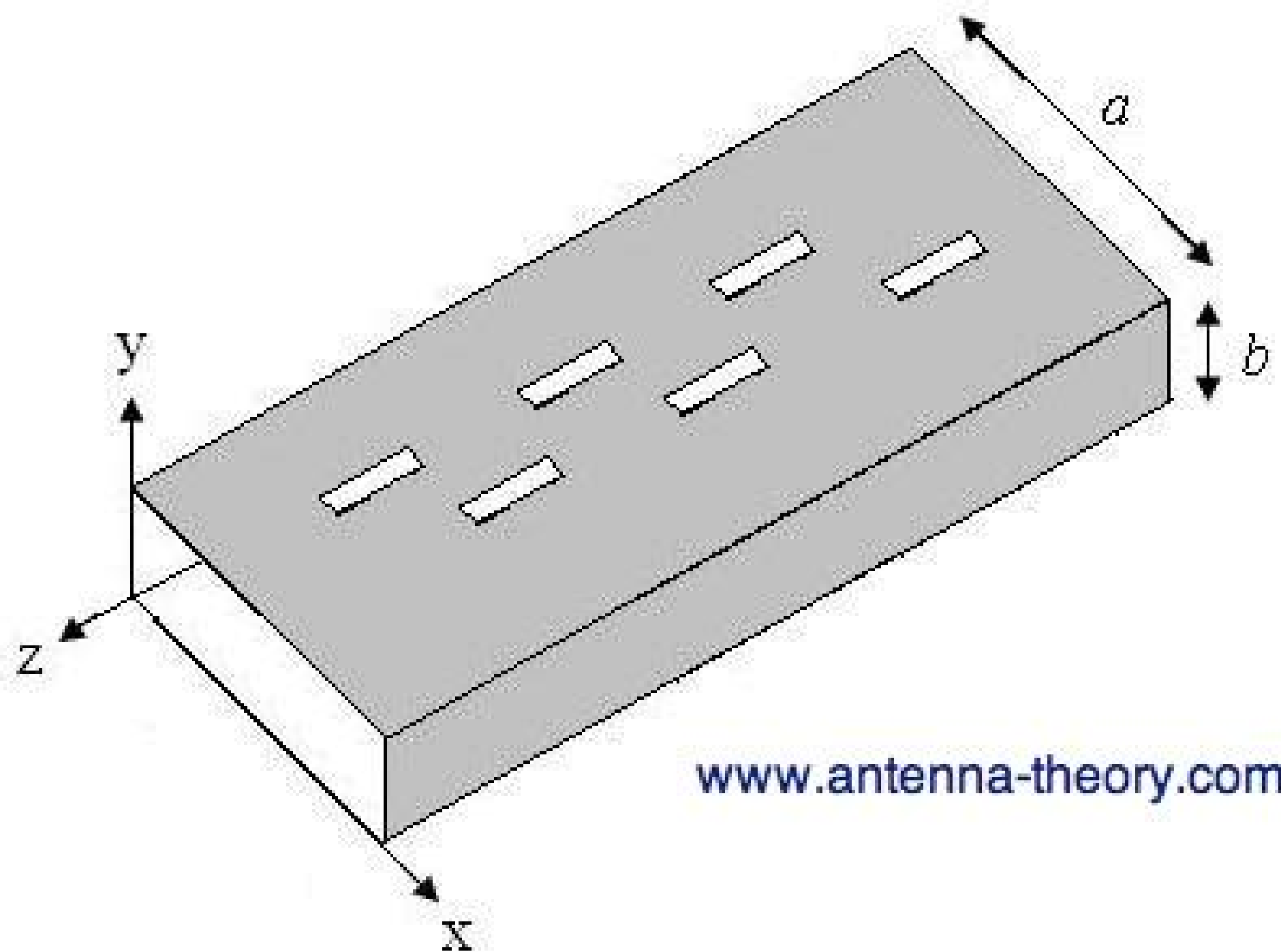




Slotted Waveguide Antenna

Tony Joseph Azar



Slotted Waveguide Antenna:

Slotted Waveguide Array Antennas Lars Josefsson, Sembiam Rajagopal Rengarajan, 2018 Slotted waveguide antenna arrays are used in radar communication and remote sensing systems for high frequencies They have linear polarization with low cross polarization and low losses but can also be designed for dual polarizations and phase steered beams Slotted Waveguide Array Antennas is the first comprehensive treatment of these antennas from an engineering perspective It provides readers with a thorough foundation in applicable theories as well as hands on instruction for practical analysis design manufacture and use of important types of waveguide slot arrays It goes beyond some of the commonly discussed topics and ventures into areas that include higher order mode coupling and edge effects performance optimisation in terms of bandwidth and pattern performance and manufacturing tolerances With specific examples of waveguide array designs accompanied by detailed illustrations and antenna characteristics the book is a must have reference for engineers involved in antenna design development and applications IET Digital Library

A Slotted Waveguide Antenna Array Mark Anthony Cortez, 1992

Vibrator and Slot Antenna Arrays for Modern Applications Mikhail V. Nesterenko, Victor A. Katrich, Sergey L. Berdnik, Oleksandr M. Dumin, Anatoliy I. Luchaninov, Dmitriy V. Gretskih, 2024-11-22 This book provides solutions to a complex of internal and external problems of electromagnetics associated with the development of theory construction of mathematical models and the development of rigorous methods for calculating the electrodynamic characteristics of radiating structures and antenna arrays with impedance vibrator and slot elements The issues related to the impedance synthesis of antenna arrays and analysis of large aperture rectenna arrays are considered Solutions to the problems of determining the electrodynamic characteristics of impedance vibrators slot and multi element radiators with arbitrary geometric and electrophysical parameters are obtained within the framework of a unified methodological approach to constructing asymptotic solutions of integral equations for currents This approach made it possible to study a number of new vibrator slotted and combined vibrator slotted structures and their multi element systems The original research results reveal the possibilities of using such structures as basic elements for creating modern antenna waveguide devices operating in the range from meter to millimeter wavelengths which have new technical characteristics and functionalities This book is intended for senior and postgraduate students and researchers working in the fields of radiophysics radio engineering and antenna feeder design The book covers the following topics Excitation of Electromagnetic Fields in Electrodynamic Volumes with Coordinate Boundaries General Aspects of the Theory of Thin Impedance Vibrators and Narrow Slots in a Quasi One Dimensional Approximation Impedance Vibrators Antenna Arrays Slotted Waveguide Antenna Arrays Combined Vibrator Slot Antenna Arrays Impedance Synthesis for Vibrator Antenna Arrays Impedance Synthesis for Slot Antenna Arrays Large Aperture Rectenna Arrays of Wireless Power Transmission Systems Ultrawideband Combined Vibrator Slot Antenna Arrays

Analysis of Slotted-waveguide Antenna Array Excited by Tuning Screws Tony Joseph Azar, 1998

Fully Polarimetric

Slotted Waveguide Antenna Array Design Saad Alhuwaimel, 2018 **Fully Polarimetric Slotted Waveguide Antenna Array** Saad Alhuwaimel, 2018 **An Improved Slotted Waveguide Antenna Using Post Excitation** HOWARD S. JR. JONES, WHILDEN G. HEINARD, HARRY DIAMOND LABS WASHINGTON D C., 1962 Structural Response of the Slotted Waveguide Antenna Stiffened Structure Components Under Compression JOSEPH W. SABAT, 2025-05-22

The Slotted Waveguide Antenna Stiffened Structure SWASS is an aircraft system that can provide the capabilities of a stiffened panel skin structure and a slotted waveguide radar antenna simultaneously. The system made from carbon fiber reinforced polymers is designed around a 10 GHz radar frequency in the X band range and uses a WR 90 waveguide as a baseline for design. The system is designed for integration into fuselage or wing sections of intelligence surveillance and reconnaissance ISR aircraft and would increase the system performance through the availability of increased area and decreased system weight. Elemental parts of the SWASS structure were tested in compression after preliminary testing was completed for material characterization of a resin reinforced plain woven carbon fiber fabric made from Grafil 34 700 fibers and a Tencate RS 36 resin with a resin mass ratio of 30%. Testing included finite element stress and strain field characterization of seven single slot configurations and results showed the longitudinal 90 slot was the best structural slot by about 30% in terms of maximum von Mises stress. Single waveguides were tested in the non slotted configuration and a configuration including a five longitudinal slot array in one waveguide wall. Finite element results were compared with experimental results and showed good comparisons in all areas. The slot array was determined to have a decrease in nonlinear limit load of 8% from the finite element simulations and 12% from the experimental results. All waveguides showed the characteristics of local wall buckling as the initial failure mechanism and had significant buckling features before ultimate material failure occurred. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact and remains as true to the original work as possible. Therefore you will see the original copyright references, library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work. This work is in the public domain in the United States of America and possibly other nations. Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe and we concur that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant.

A Multi-slotted Waveguide Antenna John Baker, 1962 *Slotted Substrate Integrated Waveguide Array Antenna & Feed System* Bronte MacIntosh-Hobson, 2008

In this thesis we investigate substrate integrated waveguides and their application as a slotted waveguide antenna array. The standard slotted waveguide antenna is designed following Elliot's modified design procedure. Elliot's modified design

procedure not only takes into account the effects of mutual coupling from the neighboring slots in the array but also the internal higher order modes that are scattered off adjacent slots The antenna is then converted to a slotted substrate integrated waveguide antenna by carefully placing two rows of metallic via holes to simulate the sidewalls of the rectangular waveguide The size and location of the via holes are calculated such that they contain the electromagnetic fields inside the substrate integrated waveguide with negligible leakage loss and that the substrate integrated waveguide has the same propagation constant and characteristic impedance as its equivalent rectangular waveguide Integrating the waveguide into a substrate allows the entire circuit to be fabricated within the substrate and eliminates the need for complicated transitions that link a rectangular waveguide to a planar circuit The antenna is fed by a 50 shielded stripline The stripline is shielded by two rows of via holes placed symmetrically on each side of the trace of the stripline The transition is composed of a single via hole that links the shielded stripline to the substrate integrated waveguide Back to back transitions between a shielded stripline and a substrate integrated waveguide are designed and simulated for three different frequency bands C band Ku band Ka band The bandwidth of the transitions ranged from 20 35% in all cases A back to back transition was fabricated for the C band The fabrication was done by hand using electrical tape for the stripline inner conductor and screws as the via holes The bandwidth of the measured results show a smaller bandwidth compared to the simulated results This disparity is due to the imperfections associated with fabricating the transition by hand A uniform antenna array of 8 slots is designed and simulated with the feed network A good radiation pattern with sidelobes 14dB below the main beam is observed The antenna has an impedance bandwidth of 1GHz at the operating frequency of 15GHz

Slotted Substrate Integrated Waveguide Array Antenna & Feed System MacIntosh-Hobson Bronte.,2008

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Structural Response of the Slotted Waveguide Antenna Stiffened Structure Components Under Compression

Joseph W. Sabat (Jr.),2010

Microstrip Antenna J. R. James,Peter S. Hall,Colin Wood,1986 In the past few years the concept of creating microwave antennas using microstrip has attracted increasing attention and viable practical designs are now emerging The purpose of this monograph is to present the reader with an appreciation of the underlying physical action up to date theoretical treatments useful antenna design approaches and the overall state of the art situation The emphasis is on antenna engineering design but to achieve this goal it has been necessary to delve into the behaviour of microstrip in a much wider sense and also include aspects of electromagnetic analysis As a consequence the monograph will also be of interest to microstrip circuit designers and to some extent those seeking electromagnetic problems of a challenging nature The astronomical progress in miniaturising and integrating electronic circuits in the past decade has recently created a positive demand for a new generation of antenna systems In principle microstrip antennas are thin planar configurations that

are lightweight low cost easy to manufacture and can be made conformal with the surfaces of vehicles missiles etc The compatibility of microstrip antennas with integrated electronics is another great advantage However the microstrip wavetrapping effects inhibit the radiation mechanism and must be taken into account in antenna design Wave trapping effects in substrates involve the study of surface waves and discontinuities in open waveguide structures The microstrip antenna designer must therefore encompass many more effects than previously considered by microstrip circuit designers It is for these reasons that the scope of this monograph is necessarily somewhat wider than the title may suggest The ten chapters are a blend of introductory practical and theoretical treatments and likely future developments are also highlighted A good selection of past and current references are given and each chapter concludes with a helpful summary comment

A Study on Slotted Waveguide Antenna Arrays Shien Moon Chow, 1998 *Study of Dual Beam Slotted Waveguide Antenna for SAR Applications* M. Bonnedal, European Space Agency, Ericsson Radar Electronics AB. Mölndal, 1991 *Design of a Narrow Wall Transverse Slotted Waveguide Array at 70 Gc* Francis M. Gray, HARRY DIAMOND LABS WASHINGTON D C., 1963

Research concerned the design of a slotted waveguide antenna array for a low power lightweight 70 Gc ground ranging radar system Narrow wall transverse slot arrays were designed using both the Taylor and the uniform aperture distributions The methods and equations used in the design are discussed A generalized method of obtaining Taylor aperture distributions with minimum effort is presented A 100 slot array was built using the uniform aperture distribution and a 164 slot array was constructed using the Taylor aperture distribution Both arrays were constructed using RG 98 U waveguide At the design frequency the 100 slot array had calculated and measured efficiencies of 84 and 81 percent while the 164 slot array had calculated and measured efficiencies of 86 and 83 percent respectively Measurements taken on these arrays showed that beamwidth and sidelobe levels were within design requirements Author *A Computational Model for the Slotted Waveguide Array Antenna* M. Dich, Technical University of Denmark. Electromagnetics Institute, DTH., EMI., 1994

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