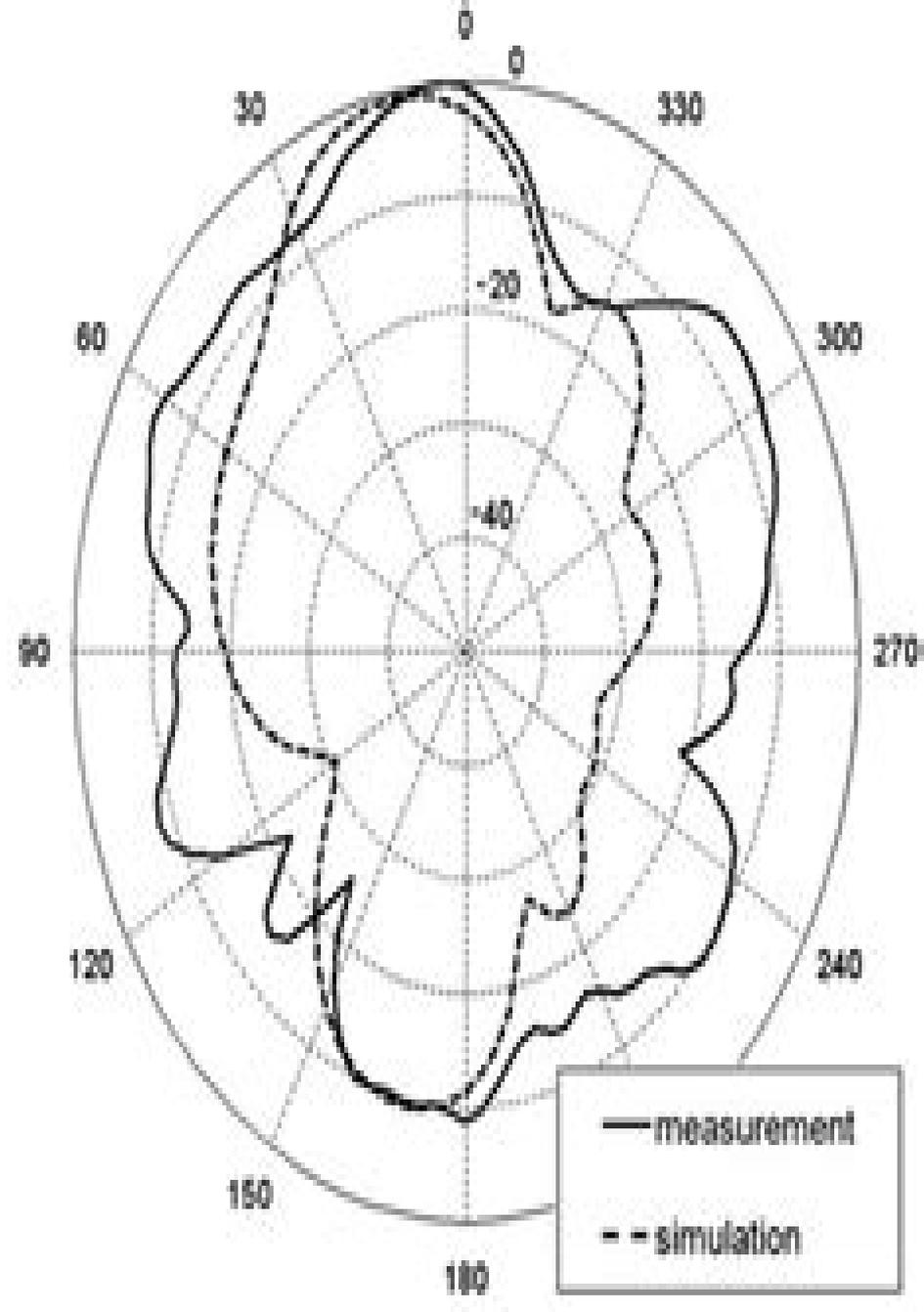


(a)



(b)

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Fully Polarimetric Slotted Waveguide Antenna Array Design Saad Alhuwaimel, 2018 **A Slotted Waveguide Antenna Array** Mark Anthony Cortez, 1992 Slotted Waveguide Shaped Beam Antenna at Ku Band Robert V. McGahan, ROME AIR DEVELOPMENT CENTER GRIFFISS AFB N Y., 1977 A Ku band slotted waveguide antenna having a cosecant squared radiation pattern is described The antenna was designed and constructed by means of a method utilizing displaced inclined shunt slots in the broad face of WR 62 waveguide A gain of 12 dB at 15.84 GHz was measured with crosspolarization rejection of 20 dB Design equations and curves are included Author Radiation Pattern Analysis of the Tapered Slot Antenna Ramakrishna Janaswamy, 1986 **Analysis of a Parallel Array of Waveguide Or Cavity-backed Rectangular Slot Antennas** Satnam Prasad Mathur, 1974 Radiation Patterns of a Slot Antenna in the Presence of a Breakdown Sheath Michael H. Mentzoni, James Donohoe, SYLVANIA ELECTRONIC SYSTEMS-EAST WALTHAM MASS APPLIED RESEARCH LAB., 1968 The plasma sheath which characterizes aperture breakdown causes severe attenuation and phase distortion of the transmitted signal in the broadside direction The experimental radiation pattern and the effects of the breakdown sheath are investigated for a wide range of pressures and breakdown power levels Author Radiation from Variable-reactance Surface-wave Antennas M. G. Andreasen, 1961 A theoretical study is presented of the properties of flush mounted or two sided aperture surface wave antennas The paradox of radiation from a constant reactance surface wave antenna is discussed also in order to derive an understanding of the principle of radiation from a surface wave antenna with periodically varying parameters The principle of radiation from Simon's cigar antenna which has caused some controversy is discussed Finally a theory which in principle is exact is developed for a variable reactance surface wave antenna By this theory the surface field can be determined using a field representation in terms of coupled cylindrical modes For practical designs approximate expressions for the surface field are derived author **A Computational Model for the Slotted Waveguide Array Antenna** M. Dich, Technical University of Denmark. Electromagnetics Institute, DTH., EMI., 1994 An Improved Slotted Waveguide Antenna Using Post Excitation HOWARD S. JR. JONES, WHILDEN G. HEINARD, HARRY DIAMOND LABS WASHINGTON D C., 1962 **Fully Polarimetric Slotted Waveguide Antenna Array** Saad Alhuwaimel, 2018 **An Analysis of a Slotted Waveguide, Frequency Scanned, Antenna Near Cutoff** M. R. Weiss, MITRE CORP BEDFORD MASS., 1974 Two major concerns in the designs of X Band precision approach radars are their cost and their ability to detect and track aircraft in heavy rain clutter The objective of this investigation was to study a particular limited scan linearly polarized antenna which could be used in conjunction with a digital filter for the suppression of clutter and thereby provide a low cost system concept This antenna uses the inherent dispersion of slotted waveguide near cutoff for frequency scan in elevation However such antennas are sensitive to waveguide dimensional errors This report presents an analysis of the effect of such errors on the formation of the frequency scanned beam Basic design equations are developed for a narrow scan angle

application The effect of statistical errors is analyzed and average radiation patterns are presented which indicate the degree of degradation **Analysis of Slotted-waveguide Antenna Array Excited by Tuning Screws** Tony Joseph Azar,1998

Analysis of Slotted Waveguide Antennas ,1998 Slotted Wave-guide Antenna Array (volnovodno-shchelevaya Antennaya Reshetka). G. A. Evstropov,FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO.,1967 The proposed antenna consists of a waveguide array with oblique slots To decrease mutual effects and increase the permissible distance between the radiators metal strings are placed between the adjacent waveguides parallel to their longitudinal axes

Structural Effects of the Slotted Waveguide Antenna in an Aircraft Structure ,2010 **A Multi-slotted Waveguide Antenna** John Baker,1962 *Slotted Waveguide Array Antenna* Chee Hui Chong,Chee Seong Fong,1998 *Traveling-wave Phase Analysis of a Slotted Waveguide Antenna* Norman Robert Brennecke,1961 **A Study on Slotted Waveguide Antenna Arrays** Shien Moon Chow,1998

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