

MONOPULSE RF SYSTEM SIMULATION

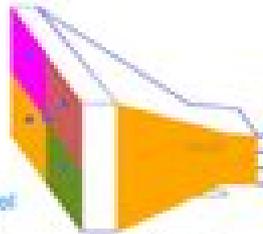
MeasDgn
Meas2

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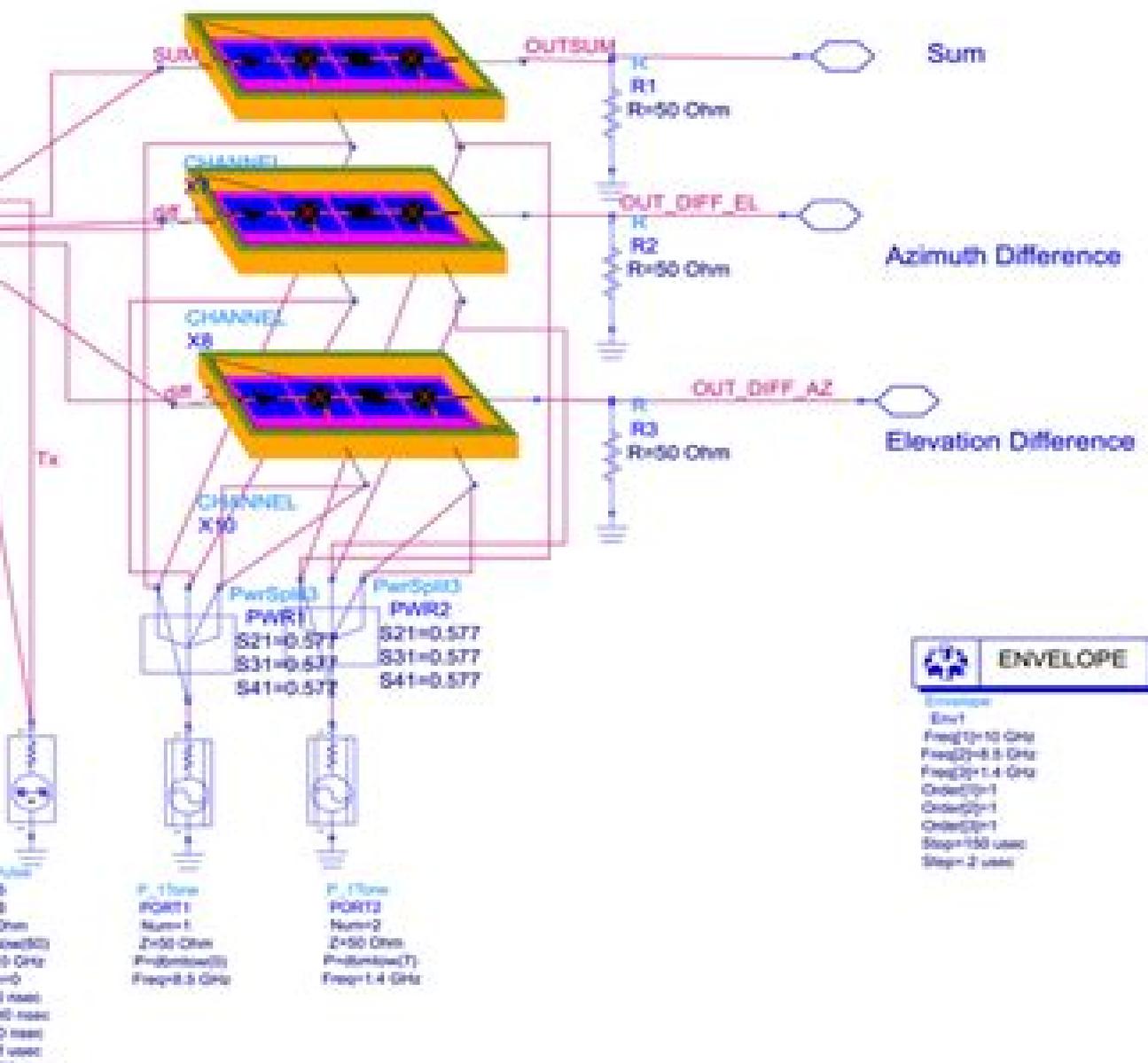
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OUT_DIFF_EL_IF=mix(OUT_DIFF_EL,(1,-1,-1))
OUT_DIFF_AZ_IF=mix(OUT_DIFF_AZ,(1,-1,-1))
    
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Stationary Target Model
X12
freq=28 GHz
Range=10000
d=7.5 mm
theta=5
phi=5
direction_phi=1
direction_theta=1
CrossSection=1



MONOPULSE_COMPARATOR
X11
freq=10 GHz



PWR1
PORT1
Num=2
Z=50 Ohm
Pwr(tot)=500
Freq=10 GHz
OffRatio=0
Delay=0 nsec
Rise=100 nsec
Fall=100 nsec
Width=2 usec
Bandwidth=0 usec

PWR2
PORT1
Num=1
Z=50 Ohm
Pwr(tot)=500
Freq=1.4 GHz

PWR3
PORT1
Num=2
Z=50 Ohm
Pwr(tot)=7
Freq=1.4 GHz

ENVELOPE

Envelope
Env1
Freq(1)=10 GHz
Freq(2)=1.4 GHz
Freq(3)=1.4 GHz
Order(1)=1
Order(2)=1
Order(3)=1
Step=100 usec
Step=2 usec

Monopulse Radar

Raju



Monopulse Radar:

Monopulse Radar Theory and Practice, Second Edition Samuel M. Sherman, David Knox Barton, 2011 Monopulse is a type of radar that sends additional information in the signal in order to avoid problems caused by rapid changes in signal strength Monopulse is resistant to jamming which is one of the main reasons it is used in most radar systems today This updated and expanded edition of an Artech House classic offers you a current and comprehensive treatment of monopulse radar principles techniques and applications The Second Edition features two brand new chapters covering monopulse countermeasures and counter countermeasures and monopulse for airborne radar and homing seekers This essential volume categorizes and describes the various forms of monopulse radar and analyzes their capabilities and limitations The book also devotes considerable space to monopulse circuits and hardware components explaining their functions and performance This practical resource features numerous photographs and illustrations drawn from actual radar systems and components This book serves as a valuable reference for both experienced radar engineers and those new to the field

Understanding Radar Systems Simon Kingsley, Shaun Quegan, 1999 What is radar What systems are currently in use How do they work Understanding Radar Systems provides engineers and scientists with answers to these critical questions focusing on actual radar systems in use today It is the perfect resource for those just entering the field or a quick refresher for experienced practitioners The book leads readers through the specialized language and calculations that comprise the complex world of modern radar engineering as seen in dozens of state of the art radar systems The authors stress practical concepts that apply to all radar keeping math to a minimum Most of the book is based on real radar systems rather than theoretical studies The result is a valuable easy to use guide that makes the difficult parts of the field easier and helps readers do performance calculations quickly and easily

Radar Engineering Raju, 2013-12-30 This book contains the applications of radars fundamentals and advanced concepts of CW CW Doppler FMCW Pulsed doppler MTI MST and phased array radars etc It also includes effect of different parameters on radar operation various losses in radar systems radar transmitters radar receivers navigational aids and radar antennas Key features Nine chapters exclusively suitable for one semester course in radar engineering More than 100 solved problems More than 1000 objective questions with answers More than 600 multiple choice questions with answers Five model question papers Logical and self understandable system description

Monopulse Radar David Knox Barton, 1974

Monopulse Radar Theory, 2018-05 There are different types of radars such as search radars tracking radars etc Each of these radars has an explicit application The main task of search radars is to detect targets at long distances and track radars main task is to follow and track the target The main components of the radar range search radars and precision tracking radars and tracking of important issues The monopulse radar system is mainly used for target angle measurement and tracking The information on the target angular position is determined by comparison of signals received in two or more simultaneous beams In recent years combining the monopulse technology and the wideband imaging technology

has become a general trend The wideband monopulse radars can synthesize one dimensional high resolution range profiles and two dimensional monopulse angle measurements to obtain three dimensional imaging of the target Monopulse radars are widely used in target tracking systems because of their superior angular accuracy and powerful antijamming performance The main advantage of a monopulse system in comparison to standard angle measurement methods is that it is not affected by amplitude fluctuations of the target echo because the angle information is acquired by comparing signals received by several simultaneous beams and produced by a single echo pulse If the echo amplitude changes it changes in the same way in all receiver channels Monopulse Radar Theory offers engineers cutting edge treatment of monopulse radar principles techniques and applications The chapters are contributed by renowned authors and researchers dealing with the field Including research reviews and real world examples and cases this practical information guide describes the various forms of monopulse radar and analyzes their capabilities and limitations The book also intended to considerable space to monopulse circuits and hardware elements clearing their functions and performance This book will be a guiding tool for students academic researchers as well as for both experienced radar engineers and those who wish to expand their knowledge in this subject

Basic Radar Tracking Mervin C. Budge, Shawn R. German, 2018-10-31 Detailed closed loop bandwidth and transient response approach is a subject rarely found in current literature This innovative resource offers practical explanations of closed loop radar tracking techniques in range Doppler and angle tracking To address analog closed loop trackers a review of basic control theory and modeling is included In addition control theory radar receivers signal processors and circuitry and algorithms necessary to form the signals needed in a tracker are presented Digital trackers and multiple target tracking are also covered focusing on g h and g h k filters Readers learn techniques for modeling digital closed loop trackers The radar circuitry block diagrams necessary for range Doppler and angle tracking are presented and described with examples and simulations included Factors such as noise and Swerling type fluctuations are taken into account In addition to numerous worked examples this approachable reference includes MATLAB code associated with analysis simulations and figures The book contains solutions to practical problems making it useful for both novice and advanced radar practitioners Software will be available for download on this page

Introduction to Monopulse Donald R. Rhodes, 1959

Theory to Countermeasures Against New Radars Xixiang Zhang, Kaiqi Xiao, Jie Gu, 2022-04-19 This book introduces readers to a range of jamming principles and techniques for new radars combining a wealth of theoretical analyses test data calculations and charts With rapid advances in military radar technology new types of radar are constantly emerging Therefore there is an urgent need to carry out effective research on these new radars and to develop corresponding jamming techniques The main topics covered include development of radar and radar countermeasures jamming techniques for synthetic aperture radar jamming techniques for pulse compression radar jamming techniques for pulse Doppler radar general jamming techniques for various radars analysis and calculation of the effective jamming

suppression zone and jamming exposure zone for radars installed on different platforms jamming techniques for phased array radar jamming techniques for dual multiple static radar and solutions for high equivalent radiation power high reception sensitivity and transceiver isolation in jammer design **Tracking the History of Radar** Oskar Blumtritt, Hartmut Petzold, William Aspray, 1994 *Monopulse Radar* A. I. Leonov, Aleksandr Ivanovich Leonov, K. I. Fomichev, William F. Barton, 1986-01-01 **DDC Retrieval and Indexing Terminology** Defense Documentation Center (U.S.), 1975 **U.S. Government Research & Development Reports**, 1965 **Radar Electronic Counter-countermeasures** Stephen L. Johnston, 1979 **U.S. Government Research and Development Reports**, 1965 **Analysis of a Monopulse Radar** Franklin M. Waddle, ARMY MISSILE RESEARCH DEVELOPMENT AND ENGINEERING LAB REDSTONE ARSENAL ALA GUIDANCE AND CONTROL DIRECTORATE., 1976 A simplified monopulse radar is analyzed and expressions for the outputs of the error detectors are derived with the assumption of no interfering signals being present Interfering signals are then added to the radar input A brief look is also taken at a radar antenna control system Author Monopulse Processing for Tracking Unresolved Targets William Dale Blair, 1998 When target echoes Interfere in a monopulse radar system the Direction of Arrival DOA estimate indicated by the in phase monopulse ratio can wander far beyond the angular separation of the targets In addition to closely spaced targets the problem of unresolved or merged measurements also occurs when targets are observed in the presence of jammer signals or sea surface induced multipath The failure to detect the presence of this interference and address it in the DOA estimation can be catastrophic to the performance of the tracking algorithm since its position and velocity estimates determine the association of any subsequent measurements to the target Monopulse processing for tracking unresolved targets is addressed in four parts The first part involves the development of the Probability Density Function PDF and statistics of the measured amplitude of the sum signal for an arbitrary number of unresolved Rician targets The PDF and statistics are utilized to develop estimators of the target amplitude parameters which define the Signal to Noise Ratio SNR of the target and discriminators for models of the target amplitude fluctuations The second part involves the development of the joint PDF and statistics of the complex monopulse ratio for an arbitrary number of unresolved Rician targets and a fixed amplitude target in the presence of multipath *Radar Handbook* Merrill Ivan Skolnik, 1990 This edition is the most comprehensive and informative available on radar systems and technology Thoroughly revised and updated to reflect the advances made in radar over the past two decades Charts graphs **International Conference Radar-82** Institution of Electrical Engineers. Electronics Division, 1982 **North America Skyline**, 1961 Proceedings of the 1998 IEEE Radar Conference IEEE Aerospace and Electronic Systems Society, 1998 Since the invention of radar each succeeding system solution has been challenged with increasing performance demands For the last decade added attention has been focused on lowering the life cycle cost Sometimes new technologies and or approaches introduce problems of their own RADARCON presents aspects of radar technology

applications and signal data processing

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