

INTRODUCTION TO RADAR SYSTEMS SKOLNIK 3RD EDITION

SOLUTION MANUAL

INTRODUCTION TO RADAR SYSTEMS MODERN RADAR SYSTEMS UNDERSTANDING RADAR SYSTEMS RADAR SYSTEMS RADAR SYSTEMS ANALYSIS AND DESIGN USING MATLAB RADAR SYSTEM ANALYSIS AND MODELING RADAR SYSTEMS INTRODUCTION TO RADAR ANALYSIS MODERN RADAR SYSTEM ANALYSIS RADAR SYSTEMS, PEAK DETECTION AND TRACKING FUNDAMENTAL PRINCIPLES OF RADAR KNOWLEDGE BASED RADAR DETECTION, TRACKING AND CLASSIFICATION INTRODUCTION TO RADAR SYSTEMS RADAR SYSTEMS AND RADIO AIDS TO NAVIGATION FUNDAMENTALS OF MULTISITE RADAR SYSTEMS AN INTRODUCTION TO PASSIVE RADAR, SECOND EDITION AIR AND SPACEBORNE RADAR SYSTEMS INTRODUCTION TO RADAR SYSTEMS RADAR SYSTEMS PRINCIPLES MODERN RADAR DETECTION THEORY MERRILL IVAN SKOLNIK HAMISH MEIKLE SIMON KINGSLEY PAUL A. LYNN BASSEM R. MAHAFZA DAVID K. BARTON WEN-QIN WANG BASSEM R. MAHAFZA DAVID KNOX BARTON MICHAEL KOLAWOLE HABIBUR RAHMAN FULVIO GINI MERRILL I SKOLNIK A. K. SEN V S CHERNYAK HUGH D. GRIFFITHS PHILIPPE LACOMME SKOLNIK HAROLD R. RAEMER ANTONIO DE MAIO

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SINCE THE PUBLICATION OF THE SECOND EDITION OF INTRODUCTION TO RADAR SYSTEMS THERE HAS BEEN CONTINUAL DEVELOPMENT OF NEW RADAR CAPABILITIES AND CONTINUAL IMPROVEMENTS TO THE TECHNOLOGY AND PRACTICE OF RADAR THIS GROWTH HAS NECESSITATED THE ADDITION AND UPDATING OF THE FOLLOWING TOPICS FOR THE THIRD EDITION DIGITAL TECHNOLOGY AUTOMATIC DETECTION AND TRACKING DOPPLER TECHNOLOGY AIRBORNE RADAR AND TARGET RECOGNITION THE TOPIC COVERAGE IS ONE OF THE GREAT STRENGTHS OF THE TEXT IN ADDITION TO A THOROUGH REVISION OF TOPICS AND DELETION OF OBSOLETE MATERIAL THE AUTHOR HAS ADDED END OF CHAPTER PROBLEMS TO ENHANCE THE TEACHABILITY OF THIS CLASSIC BOOK IN THE CLASSROOM AS WELL AS FOR SELF STUDY FOR PRACTICING ENGINEERS

THIS ONE OF A KIND BOOK FEATURES 536 ILLUSTRATIONS DRAWN IN MAPLE V THAT OFFER A GREATER UNDERSTANDING OF VARIOUS WAVEFORMS AND OTHER TWO AND THREE DIMENSIONAL FUNCTIONS TO HELP YOU MORE ACCURATELY ANALYZE RADAR SYSTEM PERFORMANCE THE EFFECTS OF PULSE SHAPING ON TRANSMITTER STABILITY AND SPECTRA ARE DISCUSSED A TOPIC WHICH IS BECOMING MORE AND MORE IMPORTANT IN THE AGE OF ELECTROMAGNETIC COMPATIBILITY THE BOOK ADDRESSES THE IMPORTANCE OF LOW ATTENUATION AND REFLECTION BETWEEN THE MAIN RADIO FREQUENCY BLOCKS INCLUDING THE USE OF OVERSIZED WAVEGUIDES FOR LONG RUNS

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

THE RAPID DEVELOPMENT OF ELECTRONICS AND ITS ENGINEERING APPLICATIONS ENSURES THAT NEW TOPICS ARE ALWAYS COMPETING FOR A PLACE IN UNIVERSITY AND POLYTECHNIC COURSES BUT IT IS OFTEN DIFFICULT FOR LECTURERS TO FIND SUITABLE BOOKS FOR RECOMMENDATION TO STUDENTS PARTICULARLY WHEN A TOPIC IS COVERED BY A SHORT LECTURE MODULE OR AS AN OPTION MACMILLAN NEW ELECTRONICS OFFERS INTRODUCTIONS TO ADVANCED TOPICS THE LEVEL IS GENERALLY THAT OF SECOND AND SUBSEQUENT YEARS OF UNDERGRADUATE COURSES IN ELECTRONIC AND ELECTRICAL ENGINEERING COMPUTER SCIENCE AND PHYSICS SOME OF THE AUTHORS WILL PAINT WITH A BROAD BRUSH OTHERS WILL CONCENTRATE ON A NARROWER TOPIC AND COVER IT IN GREATER DETAIL BUT IN ALL CASES THE TITLES IN THE SERIES WILL PROVIDE A SOUND BASIS FOR FURTHER READING OF THE SPECIALIST LITERATURE AND AN UP TO DATE APPRECIATION OF PRACTICAL APPLICATIONS AND LIKELY TRENDS THE LEVEL SCOPE AND APPROACH OF THE SERIES SHOULD ALSO APPEAL TO PRACTISING ENGINEERS AND SCIENTISTS ENCOUNTERING AN AREA OF ELECTRONICS FOR THE FIRST TIME OR NEEDING A RAPID AND AUTHORITATIVE UPDATE VII PREFACE THE BASIC PRINCIPLES OF RADAR DO NOT CHANGE BUT THE DESIGN AND TECHNOLOGY OF PRACTICAL RADAR SYSTEMS HAVE DEVELOPED RAPIDLY IN RECENT YEARS ADVANCES IN DIGITAL ELECTRONICS AND COMPUTING ARE HAVING A MAJOR IMPACT ESPECIALLY IN RADAR SIGNAL PROCESSING AND DISPLAY I HOPE THAT THIS BOOK WILL PROVE A USEFUL INTRODUCTION TO SUCH DEVELOPMENTS AS WELL AS TO THE UNDERLYING PRINCIPLES OF RADAR DETECTION

AN INTRODUCTION TO RADAR SYSTEMS SHOULD IDEALLY BE SELF CONTAINED AND HANDS ON A COMBINATION LACKING IN MOST RADAR TEXTS THE FIRST EDITION OF RADAR SYSTEMS ANALYSIS AND DESIGN USING MATLAB PROVIDED SUCH AN APPROACH AND THE SECOND EDITION CONTINUES IN THE SAME VEIN THIS EDITION HAS BEEN UPDATED EXPANDED AND REORGANIZED TO INCLUDE ADVANCES IN T

A THOROUGH UPDATE TO THE ARTECH HOUSE CLASSIC MODERN RADAR SYSTEMS ANALYSIS THIS REFERENCE IS A COMPREHENSIVE AND COHESIVE INTRODUCTION TO RADAR SYSTEMS DESIGN AND PERFORMANCE ESTIMATION IT OFFERS YOU THE KNOWLEDGE YOU NEED TO SPECIFY EVALUATE OR APPLY RADAR TECHNOLOGY IN CIVILIAN OR MILITARY SYSTEMS THE BOOK PRESENTS ACCURATE DETECTION RANGE EQUATIONS THAT LET YOU REALISTICALLY ESTIMATE RADAR PERFORMANCE IN A VARIETY OF PRACTICAL SITUATIONS WITH ITS CLEAR EASY TO UNDERSTAND LANGUAGE YOU QUICKLY LEARN THE TRADEOFFS BETWEEN CHOICE OF WAVELENGTH AND RADAR PERFORMANCE AND SEE THE INHERENT ADVANTAGES AND LIMITATIONS ASSOCIATED WITH EACH RADAR BAND YOU FIND MODELING PROCEDURES TO HELP YOU ANALYZE ENEMY SYSTEMS OR EVALUATE RADAR INTEGRATED INTO NEW WEAPON SYSTEMS THE BOOK COVERS ECM AND ECCM FOR BOTH SURVEILLANCE AND TRACKING TO HELP YOU ESTIMATE THE EFFECTS OF ACTIVE AND PASSIVE ECM SELECT HARDWARE SOFTWARE FOR RECONNAISSANCE OR JAMMING AND PLAN THE OPERATION OF EW SYSTEMS AS RADAR SYSTEMS EVOLVE THIS BOOK PROVIDES THE EQUATIONS NEEDED TO CALCULATE AND EVALUATE THE PERFORMANCE OF THE LATEST ADVANCES IN RADAR TECHNOLOGY

THIS IS A COMPREHENSIVE BOOK ABOUT MODERN RADAR TECHNIQUES DESCRIBING SYSTEMS AND METHODS AT THE COLLEGE AND GRADUATE STUDENT LEVEL IT COVERS RADAR PRINCIPLES RADAR TECHNOLOGY AND THE APPLICATION OF THAT TECHNOLOGY THIS BOOK STARTS WITH RADAR CROSS SECTION RCS SIMULATION AND RADAR FREQUENCY SYNTHESISERS DESCRIBES A MANIPULATION OF RCS WITH PLASMA AND DEVELOPS A MILLIMETRE WAVE FREQUENCY SYNTHESISER FOR RADAR SYSTEMS NEXT MULTI PULSE PERFORMANCE EVALUATION OF ADAPTIVE DETECTION OF FLUCTUATION RADAR TARGETS AND A C BAND RADAR OVER AN URBAN AREA ARE INTRODUCED FOLLOWED BY THE INTERPOLATION OF THE RADIAL VELOCITY DATA FROM COASTAL HF RADARS AT THE FINISH THREE DIMENSIONAL

SYNTHETIC APERTURE RADAR SAR MECHANISMS AND IMAGING IS INTRODUCED FOLLOWED BY GPU BASED SAR RAW DATA SIMULATION FOR A COMPLEX THREE DIMENSIONAL SCENE THIS BOOK WILL BE OF PRACTICAL USE TO ENGINEERS TECHNICIANS PLANNERS SPECIFIERS AND MANAGERS WHO WORK WITH RADAR SYSTEMS AND WITH SYSTEMS CONTAINING RADARS AND RADAR TECHNOLOGY

INTRODUCTION TO RADAR ANALYSIS SECOND EDITION IS A MAJOR REVISION OF THE POPULAR TEXTBOOK IT IS WRITTEN WITHIN THE CONTEXT OF COMMUNICATION THEORY AS WELL AS THE THEORY OF SIGNALS AND NOISE BY EMPHASIZING PRINCIPLES AND FUNDAMENTALS THE TEXTBOOK SERVES AS A VITAL SOURCE FOR STUDENTS AND ENGINEERS PART I BRIDGES THE GAP BETWEEN COMMUNICATION SIGNAL ANALYSIS AND RADAR TOPICS INCLUDE MODULATION TECHNIQUES AND ASSOCIATED CONTINUOUS WAVE CW AND PULSED RADAR SYSTEMS PART II IS DEVOTED TO RADAR SIGNAL PROCESSING AND PULSE COMPRESSION TECHNIQUES PART III PRESENTS SPECIAL TOPICS IN RADAR SYSTEMS INCLUDING RADAR DETECTION RADAR CLUTTER TARGET TRACKING PHASED ARRAYS AND SYNTHETIC APERTURE RADAR SAR MANY NEW EXERCISE ARE INCLUDED AND THE AUTHOR PROVIDES COMPREHENSIVE EASY TO FOLLOW MATHEMATICAL DERIVATIONS OF ALL KEY EQUATIONS AND FORMULAS THE AUTHOR HAS WORKED EXTENSIVELY FOR THE U S ARMY THE U S SPACE AND MISSILE COMMAND AND OTHER MILITARY AGENCIES THIS IS NOT JUST A TEXTBOOK FOR SENIOR LEVEL AND GRADUATES STUDENTS BUT A VALUABLE TOOL FOR PRACTICING RADAR ENGINEERS FEATURES AUTHORED BY A LEADING INDUSTRY RADAR PROFESSIONAL COMPREHENSIVE UP TO DATE COVERAGE OF RADAR SYSTEMS ANALYSIS ISSUES EASY TO FOLLOW MATHEMATICAL DERIVATIONS OF ALL EQUATIONS AND FORMULAS NUMEROUS GRAPHICAL PLOTS AND TABLE FORMAT OUTPUTS ONE PART OF THE BOOK IS DEDICATED TO RADAR WAVEFORMS AND RADAR SIGNAL PROCESSING

THIS BOOK PRESENTS THE BASIC PRINCIPLES ANALYSES DESIGN FORMULAS AND CHARACTERISTICS OF VARIOUS FIN LINE CONFIGURATIONS YOU LL FIND SUMMARIES OF HUNDREDS OF RIGOROUS FORMULAS AS WELL AS APPROXIMATE CLOSED FORM EXPRESSIONS WHICH CAN BE READILY PROGRAMMED TO GENERATE DESIGN DATA FOR ANY STRUCTURE DISCOVER MILLIMETER WAVE INTEGRATED CIRCUITS AND COMPONENTS REALIZED USING THE VARIOUS FIN LINE TECHNIQUES PRESENTED IN THE TEXT INCLUDING DIRECTIONAL COUPLERS POWER DIVIDERS ATTENUATORS DETECTORS MODULATORS AND OSCILLATORS AN ARTECH HOUSE BESTSELLER

AS WELL AS BEING FULLY UP TO DATE THIS BOOK PROVIDES WIDER SUBJECT COVERAGE THAN MANY OTHER RADAR BOOKS THE INCLUSION OF A CHAPTER ON SKYWAVE RADAR AND FULL CONSIDERATION OF HF OTH ISSUES MAKES THIS BOOK ESPECIALLY RELEVANT FOR COMMUNICATIONS ENGINEERS AND THE DEFENCE SECTOR EXPLAINS KEY THEORY AND MATHEMATICS FROM SQUARE ONE USING CASE STUDIES WHERE RELEVANT DESIGNED SO THAT MATHEMATICAL SECTIONS CAN BE SKIPPED WITH NO LOSS OF CONTINUITY BY THOSE NEEDING ONLY A QUALITATIVE UNDERSTANDING THEORETICAL CONTENT PRESENTED ALONGSIDE APPLICATIONS AND WORKING EXAMPLES MAKE THE BOOK SUITABLE TO STUDENTS OR OTHERS NEW TO THE SUBJECT AS WELL AS A PROFESSIONAL REFERENCE

THE IMPORTANT AND FASCINATING TOPICS OF RADAR ENJOY AN EXTENSIVE AUDIENCE IN INDUSTRY AND GOVERNMENT BUT DESERVE MORE ATTENTION IN UNDERGRADUATE EDUCATION TO BETTER PREPARE GRADUATING ENGINEERS TO MEET THE DEMANDS OF MODERN MANKIND RADAR IS NOT ONLY ONE OF THE MAJOR APPLICATIONS OF ELECTRONICS AND ELECTROMAGNETIC COMMUNICATIONS BUT IT IS ALSO A MATURE SCIENTIFIC DISCIPLINE WITH SIGNIFICANT THEORETICAL AND MATHEMATICAL FOUNDATIONS THAT WARRANT AN INTELLECTUAL AND EDUCATIONAL CHALLENGE FUNDAMENTAL PRINCIPLES OF RADAR IS A TEXTBOOK PROVIDING A FIRST EXPOSURE TO RADAR PRINCIPLES IT PROVIDES A BROAD CONCEPT UNDERLYING THE BASIC PRINCIPLE OF OPERATIONS OF MOST EXISTING RADAR SYSTEMS AND MAINTAINS A GOOD BALANCE OF MATHEMATICAL RIGOR TO CONVINCE READERS WITHOUT LOSING INTEREST THE BOOK PROVIDES AN EXTENSIVE EXPOSITION OF THE TECHNIQUES CURRENTLY BEING USED FOR RADAR SYSTEM DESIGN ANALYSIS AND EVALUATION IT PRESENTS A COMPREHENSIVE SET OF RADAR PRINCIPLES INCLUDING ALL FEATURES OF MODERN RADAR APPLICATIONS WITH THEIR UNDERLYING DERIVATIONS USING SIMPLE MATHEMATICS COVERAGE IS LIMITED TO THE MAIN CONCEPTS OF RADAR IN ORDER TO PRESENT THEM IN A SYSTEMATIC AND ORGANIZED FASHION TOPICS ARE TREATED NOT AS ABSTRUSE AND ESOTERIC TO THE POINT OF INCOMPREHENSIBILITY BUT THE VERY COMPLEX AND RICH TECHNOLOGY OF RADAR IS DISTILLED INTO ITS FUNDAMENTALS THE AUTHOR S EMPHASIS IS ON CLARITY WITHOUT SACRIFICING RIGOR AND

COMPLETENESS THUS MAKING THE BOOK BROAD ENOUGH TO SATISFY A VARIETY OF BACKGROUNDS AND INTERESTS THOROUGH DOCUMENTATION PROVIDES AN UNUSUAL DEGREE OF COMPLETENESS FOR A TEXTBOOK AT THIS LEVEL WITH INTERESTING AND SOMETIMES THOUGHT PROVOKING CONTENT TO MAKE THE SUBJECT EVEN MORE APPEALING KEY FEATURES COVERS A WIDE RANGE OF TOPICS IN RADAR SYSTEMS INCLUDES EXAMPLES AND EXERCISES TO REINFORCE THE CONCEPTS PRESENTED AND EXPLAIN THEIR APPLICATIONS PROVIDES SELF CONTAINED CHAPTERS USEFUL FOR READERS SEEKING SELECTIVE TOPICS PROVIDES BROAD CONCEPTS UNDERLYING THE BASIC PRINCIPLES OF OPERATIONS OF MOST TYPES OF RADARS IN USE TODAY INCLUDES DOCUMENTATION TO LEAD TO FURTHER READING OF INTERESTING CONCEPTS AND APPLICATIONS

DISCOVER THE TECHNOLOGY FOR THE NEXT GENERATION OF RADAR SYSTEMS HERE IS THE FIRST BOOK THAT BRINGS TOGETHER THE KEY CONCEPTS ESSENTIAL FOR THE APPLICATION OF KNOWLEDGE BASED SYSTEMS KBS TO RADAR DETECTION TRACKING CLASSIFICATION AND SCHEDULING THE BOOK HIGHLIGHTS THE LATEST ADVANCES IN BOTH KBS AND RADAR SIGNAL AND DATA PROCESSING PRESENTING A RANGE OF PERSPECTIVES AND INNOVATIVE RESULTS THAT HAVE SET THE STAGE FOR THE NEXT GENERATION OF ADAPTIVE RADAR SYSTEMS THE BOOK BEGINS WITH A CHAPTER INTRODUCING THE CONCEPT OF KNOWLEDGE BASED KB RADAR THE REMAINING NINE CHAPTERS FOCUS ON CURRENT DEVELOPMENTS AND RECENT APPLICATIONS OF KB CONCEPTS TO SPECIFIC RADAR FUNCTIONS AMONG THE KEY TOPICS EXPLORED ARE FUNDAMENTALS OF RELEVANT KB TECHNIQUES KB SOLUTIONS AS THEY APPLY TO THE GENERAL RADAR PROBLEM KBS APPLICATIONS FOR THE CONSTANT FALSE ALARM RATE PROCESSOR KB CONTROL FOR SPACE TIME ADAPTIVE PROCESSING KB TECHNIQUES APPLIED TO EXISTING RADAR SYSTEMS INTEGRATED END TO END RADAR SIGNALS DATA PROCESSING WITH OVERARCHING KB CONTROL ALL CHAPTERS ARE SELF CONTAINED ENABLING READERS TO FOCUS ON THOSE TOPICS OF GREATEST INTEREST EACH ONE BEGINS WITH INTRODUCTORY REMARKS MOVES ON TO DETAILED DISCUSSIONS AND ANALYSIS AND ENDS WITH A LIST OF REFERENCES THROUGHOUT THE PRESENTATION THE AUTHORS OFFER EXAMPLES OF HOW KBS WORKS AND HOW IT CAN DRAMATICALLY IMPROVE RADAR PERFORMANCE AND CAPABILITY MOREOVER THE AUTHORS FORECAST THE IMPACT OF KB TECHNOLOGY ON FUTURE SYSTEMS INCLUDING IMPORTANT CIVILIAN MILITARY AND HOMELAND DEFENSE APPLICATIONS WITH CHAPTERS CONTRIBUTED BY LEADING INTERNATIONAL RESEARCHERS AND PIONEERS IN THE FIELD THIS TEXT IS RECOMMENDED FOR BOTH STUDENTS AND PROFESSIONALS IN RADAR AND SONAR DETECTION TRACKING AND CLASSIFICATION AND RADAR RESOURCE MANAGEMENT

SINCE THE PUBLICATION OF THE SECOND EDITION OF INTRODUCTION TO RADAR SYSTEMS THERE HAS BEEN CONTINUAL DEVELOPMENT OF NEW RADAR CAPABILITIES AND CONTINUAL IMPROVEMENTS TO THE TECHNOLOGY AND PRACTICE OF RADAR THIS GROWTH HAS NECESSITATED THE ADDITION AND UPDATING OF THE FOLLOWING TOPICS FOR THE THIRD EDITION DIGITAL TECHNOLOGY AUTOMATIC DETECTION AND TRACKING DOPPLER TECHNOLOGY AIRBORNE RADAR AND TARGET RECOGNITION THE TOPIC COVERAGE IS ONE OF THE GREAT STRENGTHS OF THE TEXT IN ADDITION TO A THOROUGH REVISION OF TOPICS AND DELETION OF OBSOLETE MATERIAL THE AUTHOR HAS ADDED END OF CHAPTER PROBLEMS TO ENHANCE THE TEACHABILITY OF THIS CLASSIC BOOK IN THE CLASSROOM AS WELL AS FOR SELF STUDY FOR PRACTICING ENGINEERS

THIS COMPREHENSIVE REFERENCE EXPLAINS THE MANY PROCESSES NEEDED FOR CREATING RADAR SYSTEMS AND NAVIGATION AIDS SELECTED TOPICS INCLUDE ANTENNAS RADAR TARGETS DOPPLER RADAR ATMOSPHERIC PROBING MATHEMATICAL PRELIMINARIES HYPERBOLIC NAVIGATION AIRCRAFT HOMING SYSTEMS NAVIGATION MEASURING TECHNIQUES SATELLITE NAVIGATION AMONG OTHERS

THIS IS AN ORIGINAL AND COMPREHENSIVE MONOGRAPH ON THE INCREASINGLY IMPORTANT FIELD OF MULTISTATIC RADAR SYSTEMS THE MATERIAL COVERED INCLUDES TARGET DETECTION COORDINATE AND TRAJECTORY PARAMETER ESTIMATION OPTIMUM AND SUBOPTIMUM DETECTORS AND EXTERNAL INTERFERENCES THE PRACTICAL PROBLEMS FACED BY THOSE WORKING WITH RADAR SYSTEMS ARE CONSIDERED MOST ALGORITHMS ARE PRESENTED IN A FORM ALLOWING DIRECT USE IN ENGINEERING PRACTICE AND MANY OF THE RESULTS CAN BE IMMEDIATELY APPLIED TO INFORMATION SYSTEMS CONTAINING DIFFERENT TYPES OF SENSORS NOT ONLY RADARS THIS BOOK IS THE REVISED INTERNATIONAL EDITION OF CHERNYAK S RENOWNED RUSSIAN TEXTBOOK

THIS BESTSELLING BOOK NOW IN ITS SECOND EDITION INTRODUCES THE BASIC PRINCIPLES OF PASSIVE RADAR TECHNOLOGY AND PROVIDES A COMPREHENSIVE OVERVIEW OF THE RECENT DEVELOPMENTS AND ADVANCES IN THIS FIELD IT SHOWS YOU HOW PASSIVE RADAR WORKS HOW IT DIFFERS FROM THE ACTIVE TYPE AND HELPS YOU UNDERSTAND THE BENEFITS AND DRAWBACKS OF THIS NOVEL TECHNOLOGY THE BOOK GIVES YOU THE KNOWLEDGE YOU NEED TO GET A FULL UNDERSTANDING OF THIS FASCINATING TECHNOLOGY ALL CHAPTERS HAVE BEEN FULLY REVISED AND UPDATED AND ARE WRITTEN IN A CLEAR AND ACCESSIBLE STYLE NEW CHAPTERS HAVE BEEN ADDED TO COVER ADVANCES IN THE TECHNOLOGY THAT HAVE ALREADY BEEN BUILT AND DEMONSTRATED INCLUDING SYSTEMS ON MOVING PLATFORMS AIRCRAFT AND UAVS AS WELL AS ADVANCES IN TYPES OF TRANSMISSION NOTABLY SINGLE FREQUENCY BROADCAST TRANSMISSIONS AND 5G AND IN PROCESSING TECHNIQUES THIS BOOK REMAINS AN IMPORTANT RESOURCE FOR ENGINEERS WORKING IN ACADEMIC INDUSTRY OR GOVERNMENT RESEARCH LABORATORIES ACADEMICS TEACHING GRADUATE LEVEL STUDENTS AND THOSE WORKING IN THE SPECIFICATION AND PROCUREMENT OF RADAR SYSTEMS WHO NEED TO UNDERSTAND THE PERFORMANCE AND LIMITATIONS OF THE TECHNOLOGY

A PRACTICAL TOOL ON RADAR SYSTEMS THAT WILL BE OF MAJOR HELP TO TECHNICIANS STUDENT ENGINEERS AND ENGINEERS WORKING IN INDUSTRY AND IN RADAR RESEARCH AND DEVELOPMENT THE MANY USERS OF RADAR AS WELL AS SYSTEMS ENGINEERS AND DESIGNERS WILL ALSO FIND IT HIGHLY USEFUL ALSO OF INTEREST TO PILOTS AND FLIGHT ENGINEERS AND MILITARY COMMAND PERSONNEL AND MILITARY CONTRACTORS THIS INTRODUCTION TO THE FIELD OF RADAR IS INTENDED FOR ACTUAL USERS OF RADAR IT FOCUSES ON THE HISTORY MAIN PRINCIPLES FUNCTIONS MODES PROPERTIES AND SPECIFIC NATURE OF MODERN AIRBORNE RADAR THE BOOK EXAMINES RADAR S ROLE WITHIN THE SYSTEM WHEN CARRYING OUT IS ASSIGNED MISSIONS SHOWING THE POSSIBILITIES OF RADAR AS WELL AS ITS LIMITATIONS FINALLY GIVEN THE CHANGING OPERATIONAL REQUIREMENTS AND THE POTENTIAL OPENED UP BY MODERN TECHNOLOGICAL DEVELOPMENTS A CONCLUDING SECTION DESCRIBES HOW RADAR MAY EVOLVE IN THE FUTURE THE AUTHORS REVIEW THE CURRENT STATE OF THE MAIN TYPES OF AIRBORNE AND SPACEBORNE RADAR SYSTEMS DESIGNED FOR SPECIFIC MISSIONS AS WELL AS FOR THE GLOBAL ENVIRONMENT OF THEIR HOST AIRCRAFT OR SATELLITES THEY INCLUDE NUMEROUS EXAMPLES OF THE PARAMETERS OF THESE RADARS THE EMPHASIS IN THE BOOK IS NOT ONLY ON A PARTICULAR RADAR TECHNIQUE BUT EQUALLY ON THE MAIN RADAR FUNCTIONS AND MISSIONS EVEN IF A WIDE RANGE OF TECHNIQUES ARE DESCRIBED IN THIS BOOK THE FOCUS IS ON THOSE WHICH ARE CONNECTED TO PRACTICAL APPLICATIONS

IN PLANNING A RADAR SYSTEM HAVING THE PROPER MATHEMATICAL MODELING OF PROPAGATION EFFECTS CLUTTER AND TARGET STATISTICS IS ESSENTIAL RADAR SYSTEMS PRINCIPLES PROVIDES A STRONG THEORETICAL BASIS FOR THE MYRIAD OF FORMULAS AND RULES OF THUMB REQUIRED FOR ANALYSIS CONCEPTUAL DESIGN AND PERFORMANCE EVALUATION OF RADAR SYSTEMS MATHEMATICAL DERIVATIONS OF FORMULAS COMMONLY USED BY RADAR ENGINEERS ARE PRESENTED WITH DETAILED DISCUSSIONS OF THE ASSUMPTIONS BEHIND THESE EXPRESSIONS AND THEIR RANGES OF VALIDITY THESE PRINCIPLES ARE USED IN A WIDE RANGE OF RADAR APPLICATIONS RADAR SYSTEMS PRINCIPLES MAKES IT EASY TO UNDERSTAND THE STEPS IN CALCULATING VARIOUS FORMULAS AND WHEN AND HOW THESE FORMULAS ARE USED A SET OF PROBLEMS IS PROVIDED FOR EACH CHAPTER ENABLING YOU TO CHECK YOUR PROGRESS IN APPLYING THE PRINCIPLES DISCUSSED IN EACH SECTION OF THE TEXT THERE ARE MORE THAN 170 FIGURES ILLUSTRATING KEY CONCEPTS NUMEROUS REFERENCES TO WELL KNOWN BOOKS ON RADAR FOR COVERAGE OF PRACTICAL DESIGN ISSUES AND OTHER SPECIALIZED TOPICS ARE GIVEN RADAR SYSTEMS PRINCIPLES IS AN IDEAL TEXTBOOK FOR ADVANCED UNDERGRADUATES AND FIRST YEAR GRADUATE STUDENTS AND ALSO MAKES AN EXCELLENT VEHICLE FOR SELF STUDY BY ENGINEERS WISHING TO ENHANCE THEIR UNDERSTANDING OF RADAR PRINCIPLES AND THEIR IMPLICATION IN ACTUAL SYSTEMS

MODERN RADAR DETECTION IS THE NEW FRONTIER FOR ADVANCED RADAR SYSTEMS CAPABLE OF OPERATING IN CHALLENGING SCENARIOS WITH A PLURALITY OF INTERFERENCE SOURCES BOTH MANMADE AND NATURAL WRITTEN BY TOP RESEARCHERS AND RECOGNIZED LEADERS IN THE FIELD THIS IS THE FIRST BOOK TO PROVIDE A COMPREHENSIVE UNDERSTANDING OF THE CURRENT RESEARCH TRENDS IN MODERN RADAR DETECTION IT UPDATES READERS WITH THE LATEST RADAR SIGNAL PROCESSING ALGORITHMS NOW CAPABLE WITH HIGH SPEED COMPUTER CHIPS AND SOPHISTICATED PROGRAMS IT ALSO INCLUDES EXAMPLES AND APPLICATIONS FROM REAL SYSTEMS THIS IS ESSENTIAL READING FOR RADAR SYSTEMS DESIGN ENGINEERS WITHIN AEROSPACE COMPANIES MILITARY RADAR ENGINEERS AND AEROSPACE

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