Jb Gupta Electronic Devices And Circuits

A Journey Beyond the Mundane: Discovering the Magic of JB Gupta's Electronic Devices and Circuits

Prepare to have your expectations delightfully shattered. "JB Gupta Electronic Devices and Circuits" is far more than a textbook; it's an invitation to a world where the ordinary becomes extraordinary, a place where the fundamental building blocks of our modern lives are revealed with breathtaking clarity and an almost palpable sense of wonder. Forget dry, technical prose; this book unfolds like a grand adventure, its pages humming with an imaginative spirit that will captivate seasoned engineers and curious minds alike.

What sets this remarkable work apart is its uncanny ability to imbue even the most intricate concepts with a profound emotional depth. The circuits aren't just lines on a page; they are characters in a grand narrative, each component playing its vital role in a symphony of innovation. You'll find yourself empathizing with the flow of electrons, marveling at the ingenuity of semiconductor junctions, and feeling a sense of accomplishment as you witness the birth of complex functionalities. This emotional resonance transforms the learning process from a chore into a truly enriching experience, making it a book that resonates not just with the intellect, but with the very core of our fascination with how things work.

The genius of JB Gupta lies in its universal appeal. Whether you're a professional seeking to deepen your understanding, a student embarking on your first exploration of electronics, or simply someone with an insatiable curiosity about the world around you, this book speaks a language that transcends age and background. It's a testament to the power of clear explanation and captivating storytelling, demystifying the seemingly complex and making it accessible and exciting for everyone. Imagine a guide who can transform abstract theories into tangible, understandable realities – that is the gift of this book.

The journey through "JB Gupta Electronic Devices and Circuits" is an imaginative setting in itself. Picture this:

- **The Dawn of Semiconductors:** Witness the birth of transistors as if you were present in the innovation labs, feeling the excitement of discovery.
- **The Whispers of Amplification:** Understand how signals are boosted and shaped as if they were magical incantations, bringing sound and data to life.
- **The Dance of Digital Logic:** See the elegant ballet of ones and zeros, the foundation of all computing, unfold with captivating logic.
- **The Power of Circuits:** Experience the satisfaction of seeing individual components collaborate to create devices that shape our daily lives, from the simplest calculator to the most advanced communication systems.

This is not merely a book to be read; it is a world to be explored. Each chapter is a new vista, a fresh revelation, presented with a narrative flow that keeps you eagerly turning the pages. The emotional depth woven into the technical explanations makes you care about the subject matter, fostering a genuine connection with the principles of electronics.

We wholeheartedly recommend "JB Gupta Electronic Devices and Circuits" as a truly timeless classic. It is a treasure trove of knowledge presented in a way that is both inspiring and profoundly engaging. This book doesn't just teach you about electronic devices and circuits; it ignites a passion for them. It's an investment in understanding the very fabric of our technological world, an experience that will

undoubtedly leave a lasting impact on your intellectual journey. Prepare to be amazed, enlightened, and utterly captivated by this magical exploration. Don't just read about electronics; experience them through the unparalleled brilliance of JB Gupta.

In conclusion, this is a heartfelt recommendation for anyone seeking to discover or rediscover the captivating world of electronics. It's a book that continues to capture hearts worldwide because it reminds us of the inherent beauty and wonder in the scientific principles that govern our modern existence. **Experience "JB Gupta Electronic Devices and Circuits" - you won't regret embarking on this extraordinary adventure.**

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Electrical and Electronic Devices, Circuits and Materials Electronic Devices, Circuits, and Applications Electronic Devices and Circuits Electronic Devices and Circuits Basic Electronics: Devices, Circuits, and Systems Electronic Devices Electronic Devices, Circuits, and

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the increasing demand in home and industry for electronic devices has encouraged designers and researchers to investigate new devices and circuits using new materials that can perform several tasks efficiently with low ic integrated circuit area and low power consumption furthermore the increasing demand for portable devices intensifies the search to design sensor elements an efficient storage cell and large capacity memory elements electrical and electronic devices circuits and materials design and applications will assist the development of basic concepts and fundamentals behind devices circuits materials and systems this book will allow its readers to develop their understanding of new materials to improve device performance with even smaller dimensions and lower costs additionally this book covers major challenges in mems micro electromechanical system based device and thin film fabrication and characterization including their applications in different fields such as sensors actuators and biomedical engineering key features assists researchers working on devices and circuits to correlate their work with other requirements of advanced electronic systems offers guidance for application oriented electrical and electronic device and circuit design for future energy efficient systems encourages awareness of the international standards for electrical and electronic device and circuit design organized into 23 chapters electrical and electronic devices circuits and materials design

AND APPLICATIONS WILL CREATE A FOUNDATION TO GENERATE NEW ELECTRICAL AND ELECTRONIC DEVICES AND THEIR APPLICATIONS IT WILL BE OF VITAL SIGNIFICANCE FOR STUDENTS AND RESEARCHERS SEEKING TO ESTABLISH THE KEY PARAMETERS FOR FUTURE WORK

THIS TEXTBOOK FOR A ONE SEMESTER COURSE IN ELECTRICAL CIRCUITS AND DEVICES IS WRITTEN TO BE CONCISE UNDERSTANDABLE AND APPLICABLE EVERY NEW CONCEPT IS ILLUSTRATED WITH NUMEROUS EXAMPLES AND FIGURES IN ORDER TO FACILITATE LEARNING THE SIMPLE AND CLEAR STYLE OF PRESENTATION IS COMPLEMENTED BY A SPIRAL AND MODULAR APPROACH TO THE TOPIC THIS METHOD SUPPORTS THE LEARNING OF THOSE WHO ARE NEW TO THE FIELD AS WELL AS PROVIDES IN DEPTH COVERAGE FOR THOSE WHO ARE MORE EXPERIENCED THE AUTHOR DISCUSSES ELECTRONIC DEVICES USING A SPIRAL APPROACH IN WHICH KEY DEVICES SUCH AS DIODES AND TRANSISTORS ARE FIRST COVERED WITH SIMPLE MODELS THAT BEGINNING STUDENTS CAN EASILY UNDERSTAND AFTER THE READER HAS GRASPED THE FUNDAMENTAL CONCEPTS THE TOPICS ARE COVERED AGAIN WITH GREATER DEPTH IN THE LATTER CHAPTERS

THIS BOOK IS DESIGNED FOR UNDERGRADUATE STUDENTS OF SCIENCE AND ENGINEERING IT COVERS THE FUNDAMENTAL REQUIREMENTS OF PROFESSIONALS WORKING IN ELECTRONIC INDUSTRY AND RESEARCHERS IN VARIOUS INSTITUTIONS THE BOOK HAS BEEN WRITTEN WITH GOAL OF GRASP UNDERSTANDING OF THEORETICAL AS WELL AS PRACTICAL ASPECTS AND STARTS WITH THE TOPIC PHYSICAL PROPERTIES OF ELEMENTS FOLLOWED BY SEMICONDUCTOR DIODES SPECIAL PURPOSE ELECTRONIC DEVICES RECTIFIERS FILTERS AND POWER SUPPLIES BIPOLAR JUNCTION TRANSISTOR TRANSISTOR BIASING AND STABILIZATION HYBRID PARAMETERS AND UJT FIELD EFFECT TRANSISTORS AND FET AMPLIFIERS

ELECTRONIC DEVICES CIRCUITS AND SYSTEMS FOR BIOMEDICAL APPLICATIONS CHALLENGES AND INTELLIGENT APPROACHES EXPLAINS THE LATEST INFORMATION ON THE DESIGN OF NEW TECHNOLOGICAL SOLUTIONS FOR LOW POWER HIGH SPEED EFFICIENT BIOMEDICAL DEVICES CIRCUITS AND SYSTEMS THE BOOK OUTLINES NEW METHODS TO ENHANCE SYSTEM PERFORMANCE PROVIDES KEY PARAMETERS TO EXPLORE THE ELECTRONIC DEVICES AND CIRCUIT BIOMEDICAL APPLICATIONS AND DISCUSSES INNOVATIVE MATERIALS THAT IMPROVE DEVICE PERFORMANCE EVEN FOR THOSE WITH SMALLER DIMENSIONS AND LOWER COSTS THIS BOOK IS IDEAL

FOR GRADUATE STUDENTS IN BIOMEDICAL ENGINEERING AND MEDICAL INFORMATICS BIOMEDICAL ENGINEERS MEDICAL DEVICE DESIGNERS AND RESEARCHERS IN SIGNAL PROCESSING PRESENTS MAJOR DESIGN CHALLENGES AND RESEARCH POTENTIAL IN BIOMEDICAL SYSTEMS WALKS READERS THROUGH ESSENTIAL CONCEPTS IN ADVANCED BIOMEDICAL SYSTEM DESIGN FOCUSES ON HEALTHCARE SYSTEM DESIGN FOR LOW POWER EFFICIENT AND HIGHLY SECURED BIOMEDICAL ELECTRONICS

THIS NEW VOLUME OFFERS A BROAD VIEW OF THE CHALLENGES OF ELECTRONIC DEVICES AND CIRCUITS FOR IOT APPLICATIONS THE BOOK PRESENTS THE BASIC CONCEPTS AND FUNDAMENTALS BEHIND NEW LOW POWER HIGH SPEED EFFICIENT DEVICES CIRCUITS AND SYSTEMS IN ADDITION TO CMOS IT PROVIDES AN UNDERSTANDING OF NEW MATERIALS TO IMPROVE DEVICE PERFORMANCE WITH SMALLER DIMENSIONS AND LOWER COSTS IT ALSO LOOKS AT THE NEW METHODOLOGIES TO ENHANCE SYSTEM PERFORMANCE AND PROVIDES KEY PARAMETERS FOR EXPLORING THE DEVICES AND CIRCUIT PERFORMANCE BASED ON SMART APPLICATIONS THE CHAPTERS DELVE INTO MYRIAD ASPECTS OF CIRCUIT DESIGN INCLUDING MOSFET STRUCTURES DEPENDING ON THEIR LOW POWER APPLICATIONS FOR IOT ENABLED SYSTEMS ADVANCED SENSOR DESIGN AND FABRICATION USING MEMS INDIRECT BOOTSTRAP TECHNIQUES EFFICIENT CMOS COMPARATORS VARIOUS ENCRYPTION DECRYPTION ALGORITHMS IOT VIDEO FORENSICS APPLICATIONS MICROSTRIP PATCH ANTENNAS IN EMBEDDED IOT APPLICATIONS REAL TIME OBJECT DETECTION USING SOUND IOT AND NANOTECHNOLOGIES BASED WIRELESS SENSORS AND MUCH MORE

THIS BOOK DEALS WITH SOME EMERGING SEMICONDUCTOR DEVICES AND THEIR APPLICATIONS IN TERMS OF ELECTRONIC CIRCUITS THE BASIC CONCEPT PLAYS A KEY ROLE IN DEVELOPMENT OF ANY NEW ELECTRONIC DEVICES AND CIRCUITS THE IMPLEMENTATION OF COMPLEX INTEGRATED CIRCUITS BECOMES EASIER WITH UNDERSTANDING OF BASIC CONCEPTS OF SOLID STATE DEVICES AND ITS CIRCUIT BEHAVIOUR THE BOOK COVERS THE LATEST TRENDS IN DEVELOPMENT OF ADVANCED ELECTRONIC DEVICES AND APPLICATIONS FOR UNDERGRADUATE GRADUATE AND POST GRADUATE LEVEL COURSES IT COMBINES THE RIGHT BLEND OF THEORY AND PRACTICE TO PRESENT A SIMPLIFIED AND METHODICAL WAY TO DEVELOP RESEARCHERS UNDERSTANDING OF THE CLARITY BETWEEN THEORETICAL PRACTICAL AND SIMULATED RESULTS IN THE ANALYSIS OF SOLID STATE DEVICES CIRCUIT CHARACTERISTICS AND OTHER IMPORTANT ISSUES BASED ON THEIR APPLICATIONS THE BOOK ALSO COVERS THE BROAD APPLICATIONS OF ELECTRONIC DEVICES IN BIOMEDICAL AND LOW POWER PORTABLE SMART IOT SYSTEMS

this book is well organized into 13 chapters chapters 1 to 4 cover design of low power fet devices compatible to technology scaling trends meeting required performance enhancement in terms of power delay and speed chapter 5 and 6 are focused on analogue application of cmos technology chapter 7 describes power mosfet design with advance materials for lowest possible on resistance resulting into enhance performance chapter 8 deals with biomedical application of advance electronic devices introducing new materials and structure chapter 9 introduces a neuromorphic model and real time simulation for the study of biological neuron model in the human body on circuit level chapter 10 and 11 presents the applications of sensors growing over a wide range of sensing targets along with advance sensing technology for human computer interaction chapter 12 and 13 describe optoelectronic devices like photodetectors optical sensors and solar cells etc

this comprehensive electronics text designed for electronics technology majors provides a real world orientation for future working technicians numerous carefully designed drawings and photos are included throughout to insure that each concept is fully understood includes the latest analog integrated circuits digital applications show students the importance of digital in the analog world all discussions are interrelated by common theme of feedback specially designed transistor circuit analysis flow charts simplify basic transistor concepts manageable for one semester accompanied by superior lab and instructor s manuals and a unique student survival guide for analog electronics by the text author also availablelaboratory manual isbn 0 314 04677 1 instructor supplements call customer support to orderinstructor s guide isbn 0 314 05522 3transparency masters isbn 0 314 04925 8 keywords electronic devices

modern electronics is about implementing hardware functions in semiconductor chips and about the software that runs these semi conductor circuits very large scale integration vlsi of electronic circuits and systems needs interdisciplinary work by device physicists process developers circuit designers design automation specialists and computer architects this book covers all these topics from semiconductor

DEVICES TO SYSTEMS IN A COMPACT MANNER THE TEXT OUTLINES THE LATEST ADVANCES IN SEMICONDUCTOR DEVICES FOR VLSI CIRCUITS BUT ALSO INCLUDES SIMPLE AND EASY TO USE ANALYTICAL MODELS AS WELL AS RESULTS OF DEVICE SIMULATION THE CIRCUITS PART GIVES AN OVERVIEW OF BASIC BI POLAR AND FIELD EFFECT TRANSISTOR GATES AND IS MAINLY DEVOTED TO CMOS STANDARD CELLS AND FUNCTIONAL BLOCKS MACROCELLS THE SYSTEMS PART OUTLINES THE TOP DOWN DESIGN STYLE OF DIGITAL SYSTEMS MAINLY PROCESSORS AND MEMORIES USING FUNCTIONAL BLOCKS DESCRIBED IN THE PREVIOUS CIRCUIT PART FINALLY SOME PROBLEMS OF TESTING AND DETAILS OF PHYSICAL LAYOUT OF CHIPS ARE CONSIDERED AS BACKGROUND TO THIS TEXT INTRODUCTORY COURSES SUCH AS ELECTRON PHYSICS ELECTRONIC DEVICES AND CIRCUITS OR COMPUTER ENGINEERING WOULD BE HELPFUL

ELECTRICAL QUANTITIES CIRCUIT PRINCIPLES SIGNAL PROCESSING CIRCUITS CATHODE RAY TUBES SEMICONDUCTOR DIODES TRANSISTORS AND INTEGRATED CIRCUITS LOGIC ELEMENTS DIGITAL DEVICES MICROPROCESSORS ALTERNATING CURRENT CIRCUITS OPERATIONAL AMPLIFIERS LARGE SIGNAL AMPLIFIERS SMALL SIGNAL MODELS SMALL SIGNAL AMPLIFIERS FEEDBACK AMPLIFIERS

THIS BOOK PRESENTS SELECT PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON MICRO AND NANOELECTRONICS DEVICES CIRCUITS AND SYSTEMS MNDCS 2022 THE BOOK INCLUDES CUTTING EDGE RESEARCH PAPERS IN THE EMERGING FIELDS OF MICRO AND NANOELECTRONICS DEVICES CIRCUITS AND SYSTEMS FROM EXPERTS WORKING IN THESE FIELDS OVER THE LAST DECADE THE BOOK IS A UNIQUE COLLECTION OF CHAPTERS FROM DIFFERENT AREAS WITH A COMMON THEME AND IS IMMENSELY USEFUL TO ACADEMIC RESEARCHERS AND PRACTITIONERS IN THE INDUSTRY WHO WORK IN THIS FIELD

THE INCREASING DEMAND IN HOME AND INDUSTRY FOR ELECTRONIC DEVICES HAS ENCOURAGED DESIGNERS AND RESEARCHERS TO INVESTIGATE NEW DEVICES AND CIRCUITS USING NEW MATERIALS THAT CAN PERFORM SEVERAL TASKS EFFICIENTLY WITH LOW IC INTEGRATED CIRCUIT AREA AND LOW POWER CONSUMPTION FURTHERMORE THE INCREASING DEMAND FOR PORTABLE DEVICES INTENSIFIES THE SEARCH TO DESIGN SENSOR ELEMENTS AN EFFICIENT STORAGE CELL AND LARGE CAPACITY MEMORY ELEMENTS ELECTRICAL AND ELECTRONIC DEVICES CIRCUITS AND MATERIALS DESIGN AND APPLICATIONS WILL ASSIST THE DEVELOPMENT OF

BASIC CONCEPTS AND FUNDAMENTALS BEHIND DEVICES CIRCUITS MATERIALS AND SYSTEMS THIS BOOK WILL ALLOW ITS READERS TO DEVELOP THEIR UNDERSTANDING OF NEW MATERIALS TO IMPROVE DEVICE PERFORMANCE WITH EVEN SMALLER DIMENSIONS AND LOWER COSTS ADDITIONALLY THIS BOOK COVERS MAJOR CHALLENGES IN MEMS MICRO ELECTROMECHANICAL SYSTEM BASED DEVICE AND THIN FILM FABRICATION AND CHARACTERIZATION INCLUDING THEIR APPLICATIONS IN DIFFERENT FIELDS SUCH AS SENSORS ACTUATORS AND BIOMEDICAL ENGINEERING KEY FEATURES ASSISTS RESEARCHERS WORKING ON DEVICES AND CIRCUITS TO CORRELATE THEIR WORK WITH OTHER REQUIREMENTS OF ADVANCED ELECTRONIC SYSTEMS OFFERS GUIDANCE FOR APPLICATION ORIENTED ELECTRICAL AND ELECTRONIC DEVICE AND CIRCUIT DESIGN FOR FUTURE ENERGY EFFICIENT SYSTEMS ENCOURAGES AWARENESS OF THE INTERNATIONAL STANDARDS FOR ELECTRICAL AND ELECTRONIC DEVICE AND CIRCUIT DESIGN ORGANIZED INTO 23 CHAPTERS ELECTRICAL AND ELECTRONIC DEVICES CIRCUITS AND MATERIALS DESIGN AND APPLICATIONS WILL CREATE A FOUNDATION TO GENERATE NEW ELECTRICAL AND ELECTRONIC DEVICES AND THEIR APPLICATIONS IT WILL BE OF VITAL SIGNIFICANCE FOR STUDENTS AND RESEARCHERS SEEKING TO ESTABLISH THE KEY PARAMETERS FOR FUTURE WORK

THIS COMPREHENSIVE AND WELL ORGANIZED TEXT DISCUSSES THE FUNDAMENTALS OF ELECTRONIC COMMUNICATION SUCH AS DEVICES AND ANALOG AND DIGITAL CIRCUITS WHICH ARE SO ESSENTIAL FOR AN UNDERSTANDING OF DIGITAL ELECTRONICS PROFESSOR SANTIRAM KAL WITH HIS WEALTH OF KNOWLEDGE AND HIS YEARS OF TEACHING EXPERIENCE COMPRESSES WITHIN THE COVERS OF A SINGLE VOLUME ALL THE ASPECTS OF ELECTRONICS BOTH ANALOG AND DIGITAL ENCOMPASSING DEVICES SUCH AS MICROPROCESSORS MICROCONTROLLERS FIBRE OPTICS AND PHOTONICS IN SO DOING HE HAS STRUCK A FINE BALANCE BETWEEN ANALOG AND DIGITAL ELECTRONICS A DISTINGUISHING FEATURE OF THE BOOK IS THAT IT GIVES CASE STUDIES IN MODERN APPLICATIONS OF ELECTRONICS INCLUDING INFORMATION TECHNOLOGY THAT IS DBMS MULTIMEDIA COMPUTER NETWORKS INTERNET AND OPTICAL COMMUNICATION WORKED OUT EXAMPLES INTERSPERSED THROUGHOUT THE TEXT AND THE LARGE NUMBER OF DIAGRAMS SHOULD ENABLE THE STUDENT TO HAVE A BETTER GRASP OF THE SUBJECT BESIDES EXERCISES GIVEN AT THE END OF EACH CHAPTER WILL SHARPEN THE STUDENT S MIND IN SELF STUDY THESE STUDENT FRIENDLY FEATURES ARE INTENDED TO ENHANCE THE VALUE OF THE TEXT AND MAKE IT BOTH USEFUL AND INTERESTING

MICROWAVE DEVICES CIRCUITS AND SUBSYSTEMS FOR COMMUNICATIONS ENGINEERING PROVIDES A DETAILED TREATMENT OF THE COMMON MICROWAVE ELEMENTS FOUND IN MODERN MICROWAVE COMMUNICATIONS SYSTEMS THE TREATMENT IS THOROUGH WITHOUT BEING UNNECESSARILY MATHEMATICAL THE EMPHASIS IS ON ACQUIRING A CONCEPTUAL UNDERSTANDING OF THE TECHNIQUES AND TECHNOLOGIES DISCUSSED AND THE PRACTICAL DESIGN CRITERIA REQUIRED TO APPLY THESE IN REAL ENGINEERING SITUATIONS KEY TOPICS ADDRESSED INCLUDE MICROWAVE DIODE AND TRANSISTOR EQUIVALENT CIRCUITS MICROWAVE TRANSMISSION LINE TECHNOLOGIES AND MICROSTRIP DESIGN NETWORK METHODS AND S PARAMETER MEASUREMENTS SMITH CHART AND RELATED DESIGN TECHNIQUES BROADBAND AND LOW NOISE AMPLIFIER DESIGN MIXER THEORY AND DESIGN MICROWAVE FILTER DESIGN OSCILLATORS SYNTHESISERS AND PHASE LOCKED LOOPS EACH CHAPTER IS WRITTEN BY SPECIALISTS IN THEIR FIELD AND THE WHOLE IS EDITED BY EXPERIENCE AUTHORS WHOSE EXPERTISE SPANS THE FIELDS OF COMMUNICATIONS SYSTEMS ENGINEERING AND MICROWAVE CIRCUIT DESIGN MICROWAVE DEVICES CIRCUITS AND SUBSYSTEMS FOR COMMUNICATIONS ENGINEERING IS SUITABLE FOR SENIOR ELECTRICAL ELECTRONIC OR TELECOMMUNICATIONS ENGINEERING UNDERGRADUATE STUDENTS FIRST YEAR POSTGRADUATE STUDENTS AND EXPERIENCED ENGINEERS SEEKING A CONVERSION OR REFRESHER TEXT INCLUDES A COMPANION WEBSITE FEATURING SOLUTIONS TO SELECTED PROBLEMS ELECTRONIC VERSIONS OF THE FIGURES SAMPLE CHAPTER

MICROWAVE DEVICES CIRCUITS AND SUBSYSTEMS FOR COMMUNICATIONS ENGINEERING PROVIDES A DETAILED TREATMENT OF THE COMMON MICROWAVE ELEMENTS FOUND IN MODERN MICROWAVE COMMUNICATIONS SYSTEMS THE TREATMENT IS THOROUGH WITHOUT BEING UNNECESSARILY MATHEMATICAL THE EMPHASIS IS ON ACQUIRING A CONCEPTUAL UNDERSTANDING OF THE TECHNIQUES AND TECHNOLOGIES DISCUSSED AND THE PRACTICAL DESIGN CRITERIA REQUIRED TO APPLY THESE IN REAL ENGINEERING SITUATIONS KEY TOPICS ADDRESSED INCLUDE MICROWAVE DIODE AND TRANSISTOR EQUIVALENT CIRCUITS MICROWAVE TRANSMISSION LINE TECHNOLOGIES AND MICROSTRIP DESIGN NETWORK METHODS AND S PARAMETER MEASUREMENTS SMITH CHART AND RELATED DESIGN TECHNIQUES BROADBAND AND LOW NOISE AMPLIFIER DESIGN MIXER THEORY AND DESIGN MICROWAVE FILTER DESIGN OSCILLATORS SYNTHESISERS AND PHASE LOCKED LOOPS EACH CHAPTER IS WRITTEN BY SPECIALISTS IN THEIR FIELD AND THE WHOLE IS EDITED BY EXPERIENCE AUTHORS WHOSE EXPERTISE SPANS THE FIELDS OF COMMUNICATIONS SYSTEMS ENGINEERING AND MICROWAVE CIRCUIT DESIGN MICROWAVE DEVICES CIRCUITS AND SUBSYSTEMS FOR COMMUNICATIONS ENGINEERING IS SUITABLE FOR

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