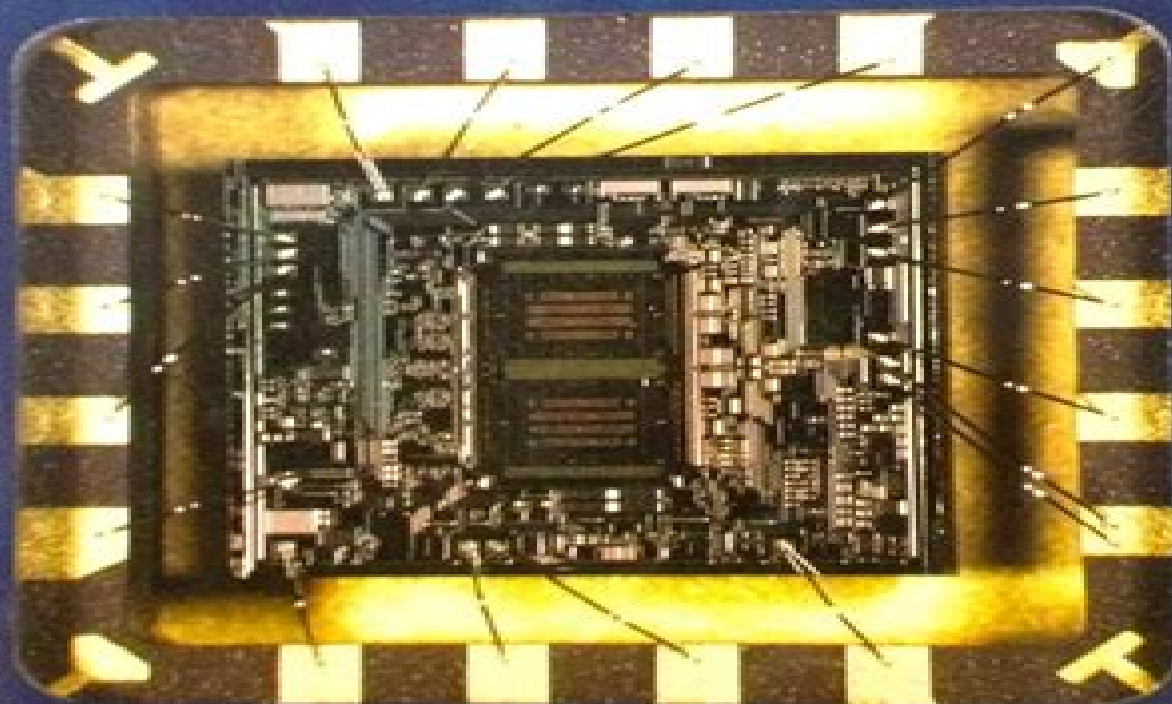


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Radio Frequency Integrated Circuit Design John W. M. Rogers, Calvin Plett, 2010 This newly revised and expanded edition of the 2003 Artech House classic Radio Frequency Integrated Circuit Design serves as an up to date practical reference for complete RFIC know how The second edition includes numerous updates including greater coverage of CMOS PA design RFIC design with on chip components and more worked examples with simulation results By emphasizing working designs this book practically transports you into the authors own RFIC lab so you can fully understand the function of each design detailed in this book Among the RFIC designs examined are RF integrated LC based filters VCO automatic amplitude control loops and fully integrated transformer based circuits as well as image reject mixers and power amplifiers If you are new to RFIC design you can benefit from the introduction to basic theory so you can quickly come up to speed on how RFICs perform and work together in a communications device A thorough examination of RFIC technology guides you in knowing when RFICs are the right choice for designing a communication device This leading edge resource is packed with over 1 000 equations and more than 435 illustrations that support key topics

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The Electronics Handbook Jerry C. Whitaker, 2018-10-03 During the ten years since the appearance of the groundbreaking bestselling first edition of The Electronics Handbook the field has grown and changed tremendously With a focus on fundamental theory and practical applications the first edition guided novice and veteran engineers along the cutting edge in the design production installation operation and maintenance of electronic devices and systems Completely updated and expanded to reflect recent advances this second edition continues the tradition The Electronics Handbook Second Edition provides a comprehensive reference to the key concepts models and equations necessary to analyze design and predict the behavior of complex electrical devices circuits instruments and systems With 23 sections that encompass the entire electronics field from classical devices and circuits to emerging technologies and applications The Electronics Handbook Second Edition not only covers the engineering aspects but also includes sections on reliability safety and engineering management The book features an individual table of contents at the beginning of each chapter which enables engineers from industry government and academia to navigate easily to the vital information they need This is truly the most comprehensive easy to use reference on electronics available

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Basic Semiconductor devices- Theory concepts and applications M. Sameh Said,2012-01-02 Basic Semiconductor devices Theory concepts and applications

INTELLIGENT TRANSPORT SYSTEMS PRADIP KUMAR SARKAR,AMIT KUMAR JAIN,2017-11-15 Over the time Intelligent Transport System ITS has become important for any country not only for traffic congestion management but also for modern infrastructure and safety Since there is a dearth of literature on this subject this book attempts to fill the gap and provides a holistic work on ITS encompassing theory examples and case studies on various facets in both road and railway sectors The basic principles of various technologies used for ITS have been explained in such a manner that students from non technical background can also comprehend them with ease It also discusses the emerging technologies such as autonomous vehicles electric vehicles cooperative vehicle highway system automated highway systems 5G mobile technology etc Considering the need of huge funds required for ITS implementation the text provides various funding options available Conclusively it is a unique book that contains all aspects of ITS which a student of engineering is expected to know The book is intended as a text for postgraduate students of transportation engineering and as a reference book for professionals such as transport planners town planners traffic engineers transit operators and consultants Key Features ITS architecture with a number of case studies based on real life situation Concept of smart city importance of advanced transport system and applications of ITS technologies in smart cities ITS in Rail sector intelligent trains train control systems and intelligent train maintenance practices Chapter end questions for practice and

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Differentiated Layout Styles for MOSFETs Salvador Pinillos Gimenez, Egon Henrique Salerno Galembeck, 2023-05-05 This book describes in detail the semiconductor physics and the effects of the high temperatures and ionizing radiations in the electrical behavior of the Metal Oxide Semiconductor Field Effect Transistors (MOSFETs) implemented with the first and second generations of the differentiated layout styles. The authors demonstrate a variety of innovative layout styles for MOSFETs enabling readers to design analog and RF MOSFETs that operate in a high temperature wide range and an ionizing radiation environment with high electrical performance and reduced die area.

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An Introduction to Mixed-signal IC Test and Measurement Gordon W. Roberts, Friedrich Taenzler, Mark Burns, 2012 With the proliferation of complex semiconductor devices containing digital, analog, mixed-signal, and radio-frequency circuits, the economics of test has come to the forefront and today's engineer needs to be fluent in all four circuit types. Having access to a book that covers these topics will help the evolving test engineer immensely and will be an invaluable resource. In addition, the second edition includes lengthy discussion on RF circuits, high-speed I/Os, and probabilistic reasoning. Appropriate for the junior/senior university level, this textbook includes hundreds of examples, exercises, and problems.

EBOOK: Fundamentals of Digital Logic Stephen Brown, Zvonko Vranesic, 2008-07-16 *Fundamentals of Digital Logic with VHDL Design* teaches the basic design techniques for logic circuits. The text provides a clear and easily understandable discussion of logic circuit design without the use of unnecessary formalism. It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips. Fundamental concepts are illustrated by using small examples which are easy to understand. Then a modular approach is used to show how larger circuits are designed.

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Modeling and Analysis of Dynamic Systems Charles M. Close, Dean K. Frederick, Jonathan C. Newell, 2001-08-20 The third edition of Modeling and Analysis of Dynamic Systems continues to present students with the methodology applicable to the modeling and analysis of a variety of dynamic systems regardless of their physical origin It includes detailed modeling of mechanical electrical electro mechanical thermal and fluid systems Models are developed in the form of state variable equations input output differential equations transfer functions and block diagrams The Laplace transform is used for analytical solutions Computer solutions are based on MATLAB and Simulink Examples include both linear and nonlinear systems An introduction is given to the modeling and design tools for feedback control systems The text offers considerable flexibility in the selection of material for a specific course Students majoring in many different engineering disciplines have used the text Such courses are frequently followed by control system design courses in the various disciplines

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