High Speed Pulse Techniques (Applied electricity and electronics)

Coekin, J.A.

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<u>High Speed Pulse Techniques</u>

United States. National Bureau of Standards

High Speed Pulse Techniques:

High-Speed Pulse Techniques J. A. Coekin, 2013-09-24 High Speed Pulse Techniques covers the many aspects of technique in digital electronics and encompass some of the more fundamental factors that apply to all digital systems The book describes the nature of pulse signals and their deliberate or inadvertent processing in networks transmission lines and transformers and then examines the characteristics and transient performance of semiconductor devices and integrated circuits Some of the problems associated with the assembly of these into viable systems operating at ultra high speed are also looked at The book examines the transients and waveshaping in linear circuits the steady state and transient characteristics of the diode switch and the two most useful diode waveshaping functions clipping and clamping circuits The characteristics of distributed parameter transmission lines with and without losses and their implications in digital systems are also considered The book then tackles transformer pulse response bipolar and unipolar transistor transient response and the characteristics of subnanosecond switching diodes and of high speed logic The text describes the implementation of high speed systems as well Students and practicing electronics and computer systems engineers will find the book useful **NBS Special Publication** ,1968 Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1971 Catalog of National Bureau of Standards Publications, 1966-1976: Key word index United States. National Bureau of Standards. Technical Information and Publications High Voltage Vacuum Insulation ,1995-04-05 The past decade has witnessed dramatic growth in the Division, 1978 diversity and complexity of device applications where vacuum is required to support either high voltages or high electric fields This is particularly true in the pace industry specifically for the development of space based pulse power systems This book presents an overview of the technological advances that have occurred since the publication of the Editors earlier book High Voltage Vacuum Insulation The Physical Basis In this latest book contributions from internationally recognized professionals and researchers in the field provide expanded treatment of the practical aspects of the subject High Voltage Vacuum Insulation Basic Concepts and Technological Practice provides a modern working manual for this specialized technology that is generic to a wide range of applications The format makes the text suitable for use as a basis for special topic lecture courses at either the undergraduate or graduate level Provides the fundamental physical concepts of the subject Focuses on practical applications Gives a historical survey of the field Includes a detailed account of system design criteria Reviews theoretical models developed to explain the pinhole phenomena Presents results of a series of experimental Publications of the National Bureau of Standards, 1972 Catalog United States. investigations on the subject National Bureau of Standards, 1973 Catalog of National Bureau of Standards Publications, 1966-1976 United States. National Bureau of Standards, 1978 Astrophysical and Plasma Physics Research at the National Bureau of Standards Lewis M. Branscomb, 1961 Highlights of astrophysical and plasma physics research at the National Bureau of Standards are

given for the period of July 1960 through June 1961 Included as appendices are a selected list of papers published by NBS participants during the period 1955 1960 and a partial list of Bureau participants. The technical objectives of the program can be found in NBS Technical Note 59 NBS Technical Note, 1961 Mode Calculations for VLF Propagation in the Earth-ionosphere Waveguide Kenneth P. Spies, James R. Wait, 1961 Catalog of National Bureau of Standards

Publications, 1966-1976 United States. National Bureau of Standards. Technical Information and Publications, 1978

Catalog of National Bureau of Standards Publications, 1966-1976: pt. 1-2. Key word index United States. National Bureau of Standards,1978 Annual Reports on NMR Spectroscopy, 2003-12-18 Nuclear magnetic resonance NMR is an analytical tool used by chemists and physicians to study the structure and dynamics of molecules In recent years no other technique has grown to such importance as NMR spectroscopy It is used in all branches of science where precise structural determination is required and where the nature of interactions and reactions in solution is being studied Annual Reports on NMR has established itself as a premier means for the specialist and nonspecialist alike to become familiar with new techniques and applications of NMR spectroscopy Includes comprehensive review articles on NMR Spectroscopy NMR is used in all branches of science No other technique has grown to such importance as NMR Spectroscopy in recent years

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J. C. Martin on Pulsed Power T.H. Martin, M. Williams, M. Kristiansen, 2013-06-29 As indicated in the Foreword to this series on Advances in Pulsed Power Technologies the pioneering roots of modern pulsed power as related by J C Charlie Martin and his co workers of the Atomic Weapons Research Establishment Aldermaston Reading UK is an important if not essential record of the experiential history of the major developer of pulsed power advances during the post World War II

period It finds great utility as an instructive accounting of the trials tribulations and finally an almost chronological walk through their thoughts as they diligently and happily travel the yellow brick road to success It is recounted in the inimitable style of Charlie Martin as only he can relate with some insightful perspectives by Mike Good man a constant companion and collaborator who shares his unique view of Charlie and the Aldermaston Group This collection of selected articles is unique for in large part the documentation of their struggle and final triumph have not been formerly published in any archival manner One reason we suspect was the defense related application and significance of their work compounded by the constant need for progress which did not allow for the time consuming preparation of formal submission to the literature This also explains the urgent and sometimes terse manner of their writings Yet the material remains remarkably current because we are dealing in large measure with pulsed systems less sensitive to those factors involved in slower pulsed scenarios

Chemical and Biological Sensors and Analytical Electrochemical Methods Antonio Joseph Ricco, 1997

Semiconductor Devices and Integrated Electronics A. G. Milnes, 2012-12-06 For some time there has been a need for a semiconductor device book that carries diode and transistor theory beyond an introductory level and yet has space to touch on a wider range of semiconductor device principles and applications Such topics are covered in specialized monographs numbering many hun dreds but the voluminous nature of this literature limits access for students This book is the outcome of attempts to develop a broad course on devices and integrated electronics for university students at about senior year level The edu cational prerequisites are an introductory course in semiconductor junction and transistor concepts and a course on analog and digital circuits that has intro duced the concepts of rectification amplification oscillators modulation and logic and SWitching circuits The book should also be of value to professional engineers and physicists because of both the information included and the de tailed guide to the literature given by the references The aim has been to bring some measure of order into the subject area examined and to provide a basic structure from which teachers may develop themes that are of most interest to students and themselves Semiconductor devices and integrated circuits are reviewed and fundamental factors that control power levels frequency speed size and cost are discussed The text also briefly mentions how devices are used and presents circuits and comments on representative applications Thus the book seeks a balance be tween the extremes of device physics and circuit design Review of the Research Program of the Division of Controlled Thermonuclear Research, United States Atomic Energy Commission ,1973 **Publications** United States. National Bureau of Standards.1971

High Speed Pulse Techniques Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**High Speed Pulse Techniques**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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