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Radiation Control for Health and Safety Act of 1967 United States. Congress. Senate. Committee on Commerce 1968 Considers S. 2067 and H.R. 10790 and companion S. 3211 to amend the Public Health Service Act to protect the public from radiation emissions from electronic products.

INTRODUCTION TO MICROWAVE ENGINEERING Mukh Ram Rajbhar It extensively covers the subject and is expected to serve as a basic text for the students of electronics and communication engineering, electrical engineering and electronics engineering, and covers the syllabus of courses for BE, BTech, AMIE, IETE, MSc, and polytechnics. Salient FeaturesA comprehensive and an easy-to-read text to provide a detailed coverage of microwave fundamentals, devices and circuits.Covers the text in nine chapters and appendices.Each chapter is supplemented with elaborate illustrations, tables, solved and unsolved problems, and MCQs.An exhaustive set of solved problems in each chapter to help students aspiring to appear in the examinations like GATE, PSUs and UPSC.Useful for BE, BTech, AMIE, IETE, MSc, and polytechnic students of ECE, and electrical engineering and also for self-study by engineers. Introduction to Electromagnetic and Microwave Engineering Paul R. Karmel 1998-01-05 Filled with illustrations, examples and approximately 300 homework problems, this accessible and informative text provides an extensive treatment of electromagnetism and microwave engineering with particular emphasis on microwave and telecommunications applications. Also stresses computational electromagnetics through the use of MathCad and finite element methods to elucidate design problems, analysis and applications. Tutorials on the use of MathCad and PSpice are included. An accessible textbook for students and valuable reference for engineers already in the field.

Microwave Engineering Sudhakar M. & Khare Vandana 2017 Microwave Engineering is intended as textbook catering needs of third year undergraduate students of Electronics & Communication Engineering. Microwave Engineering is a prerequisite for courses like Radar Systems, Microwave Integrated Circuits and Satellite Communications.

Mm-wave Circuit Design in 16nm FinFET for 6G Applications Bart Philippe 2022-09-24 This book tackles the challenges of designing mm-wave circuits in 16nm FinFET, from the elementary transistor level to a measured D-band transmitter. The design of crucial building blocks such as oscillators and power amplifiers are covered through theoretical limitations, design methodology and measurement. Offers first book on design of mm-wave circuits above 100GHz in an advanced 16nm FinFET digital technology; Covers fundamentals of transistor layout, circuit implementation and measurements; Provides single-source reference to information otherwise only available in disparate literature.

Planar Microwave Engineering Thomas H. Lee 2004-08-30 Modern wireless communications hardware is underpinned by RF and microwave design techniques. This insightful book contains a wealth of circuit layouts, design tips, and practical measurement techniques for building and testing practical gigahertz systems. The book covers everything you need to know to design, build, and test a high-frequency circuit. Microstrip components are discussed, including tricks for extracting good performance from cheap materials. Connectors and cables are also described, as are discrete passive components, antennas, low-noise amplifiers, oscillators, and frequency synthesizers. Practical measurement techniques are presented in detail, including the use of network analyzers, sampling oscilloscopes, spectrum analyzers, and noise figure meters. Throughout the focus is practical, and many worked examples and design projects are included. There is also a CD-ROM that contains a variety of design and analysis programs. The book is packed with indispensable information for students taking courses on RF or microwave circuits and for practising engineers.

General Knowledge & English NDA/CDS Col Ajit Singh 2021-08-15 This book deals with the whole gamut of General Knowledge and English that an aspirant requires to prepare for NDA, CDS and any other Graduate and above level exam held by UPSC. As it contains detailed notes on Indian History, Geography and Indian Polity followed by MCQs that have appeared in various competitive exams it would prove to be very useful for other competitive exams as well. Besides notes on each topic, it has over 7000 Multiple Choice Questions (MCQs).

Finite Element Software for Microwave Engineering Tatsuo Itoh 1996-08-23 Finite element methods have become essential design tools for managing the complex structures and devices needed in modern microwave technology. Long the preferred techniques of both researchers and engineers, their migration from research lab to routine industrial use has been accelerated by hardware and software improvements. The last decade has seen the widespread availability of good commercial finite element programs for an extensive range of applications. Finite Element Software for Microwave Engineering provides the first comprehensive overview of this burgeoning field. With its unique focus on current and future industrial applications rather than on mathematical methodology, this book is an invaluable complement to the existing literature on finite element methods. Directed to practicing engineers and researchers, the book describes user experience with current software, shows how existing programs can be used to solve problems not foreseen by their designers, and attempts to

predict which methods may appear in the commercial products of tomorrow.

RCA Engineer 1963

Introduction to Development Engineering Temina Madon 2022-09-08 This open access textbook introduces the emerging field of Development Engineering and its constituent theories, methods, and applications. It is both a teaching text for students and a resource for researchers and practitioners engaged in the design and scaling of technologies for low-resource communities. The scope is broad, ranging from the development of mobile applications for low-literacy users to hardware and software solutions for providing electricity and water in remote settings. It is also highly interdisciplinary, drawing on methods and theory from the social sciences as well as engineering and the natural sciences. The opening section reviews the history of “technology-for-development” research, and presents a framework that formalizes this body of work and begins its transformation into an academic discipline. It identifies common challenges in development and explains the book’s iterative approach of “innovation, implementation, evaluation, adaptation.” Each of the next six thematic sections focuses on a different sector: energy and environment; market performance; education and labor; water, sanitation and health; digital governance; and connectivity. These thematic sections contain case studies from landmark research that directly integrates engineering innovation with technically rigorous methods from the social sciences. Each case study describes the design, evaluation, and/or scaling of a technology in the field and follows a single form, with common elements and discussion questions, to create continuity and pedagogical consistency. Together, they highlight successful solutions to development challenges, while also analyzing the rarely discussed failures. The book concludes by reiterating the core principles of development engineering illustrated in the case studies, highlighting common challenges that engineers and scientists will face in designing technology interventions that sustainably accelerate economic development. Development Engineering provides, for the first time, a coherent intellectual framework for attacking the challenges of poverty and global climate change through the design of better technologies. It offers the rigorous discipline needed to channel the energy of a new generation of scientists and engineers toward advancing social justice and improved living conditions in low-resource communities around the world.

Compound Semiconductor Device Modelling Christopher M. Snowden 2012-12-06 Compound semiconductor devices form the foundation of solid-state microwave and optoelectronic technologies used in many modern communication systems. In common with their low frequency counterparts, these devices are often represented using equivalent circuit models, but it is often necessary to resort to physical models in order to gain insight into the detailed operation of compound semiconductor devices. Many of the earliest physical models were indeed developed to understand the 'unusual' phenomena which occur at high frequencies. Such was the case with the Gunn and IMPATI diodes, which led to an increased interest in using numerical simulation methods. Contemporary devices often have feature sizes so small that they no longer operate within the familiar traditional framework, and hot electron or even quantum mechanical models are required. The need for accurate and efficient models suitable for computer aided design has increased with the demand for a wider range of integrated devices for operation at microwave, millimetre and optical frequencies. The apparent complexity of equivalent circuit and physics-based models distinguishes high frequency devices from their low frequency counterparts . . . Over the past twenty years a wide range of modelling techniques have emerged suitable for describing the operation of compound semiconductor devices. This book brings together for the first time the most popular techniques in everyday use by engineers and scientists. The book specifically addresses the requirements and techniques suitable for modelling GaAs, InP, ternary and quaternary semiconductor devices found in modern technology.

Computational Electromagnetics for RF and Microwave Engineering David B. Davidson 2010-10-28 This hands-on introduction to computational electromagnetics (CEM) links theoretical coverage of the three key methods - the FDTD, MoM and FEM - to open source MATLAB codes (freely available online) in 1D, 2D and 3D, together with many practical hints and tips gleaned from the author's 25 years of experience in the field. Updated and extensively revised, this second edition includes a new chapter on 1D FEM analysis, and extended 3D treatments of the FDTD, MoM and FEM, with entirely new 3D MATLAB codes. Coverage of higher-order finite elements in 1D, 2D and 3D is also provided, with supporting code, in addition to a detailed 1D example of the FDTD from a FEM perspective. With running examples through the book and end-of-chapter problems to aid understanding, this is ideal for professional engineers and senior undergraduate/graduate students who need to master CEM and avoid common pitfalls in writing code and using existing software.

Hearings United States. Congress. Senate. Committee on Commerce 1967

Microwave Engineering R.L. Yadava 2018-05-04 The book deals with fundamental concept, theory and designs, as well as applications of microwaves in details. In addition it also describes EMI and EMC, Microwave hazards, and applications of microwaves in medicals. Radars and Radar devices, and MASERS have also been described properly in this book. Microwave antennas have been explained with emphasis on theory of operation and design procedures. The book also focuses on microwave measurements along with necessary requirements and different methods of measurement.

Principles of RF and Microwave Design Matthew A. Morgan 2019-11-30 This comprehensive resource provides a thorough introduction to the principles of electronic circuits operating in the radio, microwave, and millimeter-wave frequency ranges. The book highlights the fundamental physical laws of classical electromagnetics using a foundation of Maxwell’s equations to give insight into the operating principles of circuit elements of all kinds, from lumped elements to transmission lines, waveguides, optical fibers, and quasi-optical structures. Standard passive system components like filters, splitters, couplers, hybrids, baluns, and antennas are explained to acclimate the reader to considering multiple technological solutions for common design problems. A basic overview of active circuit designs, such as amplifiers, mixers, and multipliers is also provided, along with discussion of the performance characteristics of electronic systems, including noise and linearity. Emphasis is placed on visualization and understanding of how and why electronic circuits of all frequencies are built and operate the way they do. Readers learn how to match an amplifier for optimum noise performance over the broadest bandwidth with the fewest number of elements and how to visualize the coupling of various modes in a mixed waveguide-type structure and avoid resonances due to trapped, higher-order modes. The book provides the tools needed to design and optimize a launcher from microstrip into waveguide, and whether the best characteristics can be achieved by incorporating matching elements in the microstrip section, the waveguide section, or both. Packed with

references and examples, readers learn not only how to do the math but what the math means.

Microwave Engineering Gérard Barué 2008-07-25 Everything readers need to implement and support a wireless point-to-point communications environment In order to cope with the tremendous explosion of the telecommunications market, the field of wireless communications has greatly expanded in the past fifty years, especially in the domains of microwave radio systems including line-of-sight, satellites, and tropospheric-scatter. Now, Microwave Engineering: Land & Space Radio- communications answers the growing worldwide demand for an authoritative book on this important and emerging subject area. In five succinct chapters, the book introduces students and practicing engineers to the main propagation phenomena that are encountered and that must be considered in the design and planning for any given system type and frequency of operation: Electromagnetic wave propagation—An introduction to the fundamental theory of radiation and propagation of electromagnetic waves, polarization, antenna properties, free space attenuation, atmospheric refractivity, diffraction, reflection, multipath and scattering mechanisms, hydrometeor effects, and probability distributions Principles of digital communication systems—Modulation techniques, signal processing, error probability, spectral characteristics, spectrum efficiency, thermal noise, intermodulation, jamming, and interference Microwave line-of-sight systems—Path profile, flat fading and frequency-selective fading, interferometric method for space and frequency diversity techniques, International Standards and ITU Recommendations, optimization of the frequency-plan resource, link budget, quality, reliability, and availability Microwave transhorizon systems—Design of beyond-the-horizon communication systems, properties of scattering and diffraction modes, multipath statistical relations, long-term and short-term field strength variations, quality of service, optimization of antenna alignment, and experimental analysis of various diversity and combining methods Satellite communications—Design of satellite communications systems, orbital parameters, Earth-satellite geometry, uplink and downlink budgets for both space and Earth segments, and total system noise temperature Microwave Engineering: Land & Space Radiocommunications is suitable for engineers involved in wireless telecommunications, as well as for students and members of various seminars and workshops.

Proceedings Institution of Electronic and Radio Engineers 1965

The Journal of Microwave Power 1973

Bulletin of the Institution of Engineers (India). Institution of Engineers (India) 1988

Radiation Control for Health and Safety Act of 1967 United States. Congress. Senate. Committee on Commerce. Subcommittee on Surface Transportation 1968

Electronic Design 1960

High Frequency and Microwave Engineering Ed da Silva 2001-03-15 With the increased use of mobile phones and computer wireless techniques, a need has developed for a book which provides students and industry with expertise in radio and microwave engineering. This important text has been written with these aims in mind. *Provides a comprehensive course in radio and microwave engineering *Includes CD-ROM, containing the CAD package PUFF 2.1 for construction and evaluation of circuits; and a comprehensive section on practical aspects of design *Written by an experienced author, in a clear and easy-to-follow style *Contains a variety of examples and self-test questions with model answers The material covers transmission lines, scattering parameters, couplers, amplifiers, oscillators and phase-locked loops in a novel way by introducing examples from daily life prior to the introduction of the theory. Microwave tools such as Smith charts, scattering parameters and signal flow diagrams are dealt with thoroughly and are fully integrated in the numerous examples throughout the text and with PUFF. High Frequency and Microwave Engineering is intended as an advanced undergraduate text for students of electrical and communication engineering, and is also eminently suitable for self-study and as a manual for those in the industry wishing to update their engineering skills. Provides a comprehensive course in radio and microwave engineering Contains many examples and self-test questions with model answers

Technical Interviews: Excel with Ease Anil Kumar Maini 2011 Technical Interviews: Excel with Ease has been written keeping in view the large cross-section of job-seekers and professionals belonging to the discipline of Electronics, Communication, Instrumentation, Computer Science and Information Technology.

MICROWAVE ENGINEERING RAO, R. S. 2015-10-15 This thoroughly revised and updated edition, while retaining the major contents of the previous edition, presents the latest information on the various aspects of microwave engineering. With improved organization and enriched contents, the book explores expanded and updated information on the basic principles, characteristics and applications of commonly used devices in the design of various microwave systems. The book commences with a discussion on microwave basics, EM wave theory, transmission line theory, hollow pipe waveguides, microwave junctions and goes on to provide in-depth coverage of waveguide components, klystrons, magnetrons and TWTs. The book focuses on the solid-state devices and microwave measurements as well. The book has an added advantage of exercise section involving essay type questions, exercise problems, fill in the blanks, match the following and multiple choice questions, designed to reinforce the students' understanding of the concepts. This tailor-made book is appropriate for the undergraduate and postgraduate students of electronics and communication engineering. Highlights of the Second Edition • Two new chapters, namely, Klystrons, and Magnetrons and TWTs are incorporated into the book. • Several sections like coaxial line analysis, microwave link analysis, microwave bench design, measurement of phase shift, measurement of dielectric constant, and network analyzers have been introduced into the book. • Numerous questions and solved problems have been added to the exercise section of each chapter.

Handbook of Research on Developing a Post-Pandemic Paradigm for Virtual Technologies in Higher Education Loureiro, Sandra Maria Correia 2021-06-25 The COVID-19 pandemic has forced companies, institutions, citizens, and students to rapidly change their behaviors and use virtual technologies to perform their usual working tasks. Though virtual technologies for learning were already present in most universities, the pandemic has forced virtual technologies to lead the way in order to continue teaching and learning for students and faculty around the world. Universities and teachers had to quickly adjust everything from their curriculum to their teaching styles in order to adapt to an online learning environment. Online learning is a complex issue and one that comes with both challenges and opportunities; there is plenty of room for growth, and further study is required to better understand how to improve online education. The Handbook of Research on Developing a Post-Pandemic Paradigm for Virtual Technologies in Higher Education is a comprehensive reference book that presents the

testimonials of teachers and students with various degrees of experience with distance learning and their utilization of current virtual tools and applications for learning, as well as the impact of these technologies and their potential future use. With topics ranging from designing an online learning course to discussing group work in an online environment, this book is ideal for teachers, educational software developers, IT consultants, instructional designers, administrators, professors, researchers, lecturers, students, and all those who are interested in learning more about distance learning and all the positive and negative aspects that accompany it.

Proceedings of the 12th Intersociety Energy Conversion Engineering Conference, Washington, D.C., August 28 Through September 2, 1977 1977

NTIA Report 1979

Handbook of Microwave Technology for Food Application Ashim K. Datta 2001-04-27 "Integrates principles of electromagnetics, dielectrics, heat and moisture transfer, packaging, solid mechanics, fluid flow, food chemistry, and microbiology to provide a comprehensive overview of microwave processing in a single accessible source."

Hilbert Space Methods in Microwave Engineering Guang-Tsai Lei 2002

Legislative History of Radiation Control for Health and Safety Act of 1968: 1,001-2,000 United States. Bureau of Radiological Health 1975

Microwave/RF Applicators and Probes Mehrdad Mehdizadeh 2015-09-16 Microwave/RF Applicators and Probes for Material Heating, Sensing, and Plasma Generation, Second Edition, encompasses the area of high-frequency applicators and probes for material interactions as an integrated science. Based on practical experience rather than entirely on theoretical concepts, and emphasizing phenomenological explanations and well-annotated figures, the book represents one of the most important resources on the topics of microwave technologies, applications of RF and microwaves in industry (industrial heating and drying), and microwave engineering. After covering the basics of field-material interactions, the book reviews and categorizes probes and applicators, demonstrates their real-world applications, and offers numerically solved examples. Readers will find valuable design rules and principles of high-frequency applicators and probes for material processing and sensing applications in this expanded edition. Presents new information on how the interactions of electromagnetic fields with materials at high frequencies have given rise to a vast array of practical applications in industry, science, medicine, and consumer markets Thoroughly revised and expanded edition, providing an update on the most recent trends and findings Contains many new sections within existing chapters, along with new chapters on applicators for plasmas at microwave/RF frequencies

Electromagnetic Theory Multiple Choice Questions and Answers (MCQs) Arshad Iqbal "Electromagnetic Theory Multiple Choice Questions and Answers (MCQs): Quizzes & Practice Tests with Answer Key" provides mock tests for competitive exams to solve 430 MCQs. "Electromagnetic Theory MCQ" to download pdf helps with theoretical, conceptual, and analytical study for self-assessment, career tests. Electromagnetic theory quizzes, a quick study guide can help to learn and practice questions for placement test preparation. "Electromagnetic Theory Multiple Choice Questions and Answers" pdf to download is a revision guide with a collection of trivia quiz questions and answers pdf on topics: Electrical properties of dielectric, electrical properties of matter, metamaterials, time varying and harmonic electromagnetic fields to enhance teaching and learning. Electromagnetic Theory Quiz Questions and Answers pdf also covers the syllabus of many competitive papers for admission exams of different universities from electronics engineering textbooks on chapters: Electrical Properties of Dielectric MCQs: 93 Multiple Choice Questions. Electrical Properties of Matter MCQs: 37 Multiple Choice Questions. Metamaterials MCQs: 180 Multiple Choice Questions. Time Varying and Harmonic Electromagnetic Fields MCQs: 120 Multiple Choice Questions. "Electrical Properties of Dielectric MCQs" pdf covers quiz questions about dielectric constant of dielectric materials, dielectric constitutive relationship, dielectric permittivity, dielectrics basics, electric and magnetic dipoles, electrical polarization production, electronic polarization production, examining material microscopically, ferroelectrics, ionic polarization production, nonpolar dielectric materials, oriental polarization, and polar dielectric materials. "Electrical Properties of Matter MCQs" pdf covers quiz questions about introduction to matter, atoms and molecules, Bohr's model, DNG, and electromagnetic theory. "Metamaterials MCQs" pdf covers quiz questions about introduction to metamaterials, base metals, chiral metamaterials, cloak devices, dilute metals, Drude model, Drude-Lorentz model, finite element method, FDTD grid truncation techniques, Fermat's principle, ferrites, FIM history, FIM structure, finite difference time domain, finite difference time domain history, finite difference time domain method, finite difference time domain popularity, harmonic plane, left hand materials, Maxwell's constitutive equation, metamaterial structure, metamaterials basics, metamaterials permittivity, metamaterials planes, metamaterials: electric & magnetic responses, monochromatic plane, noble metals, refractive index, Snell's law, split ring resonator, strengths of FDTD modeling, tunable metamaterials, types of finite element method, wave vector, and weakness of FDTD modeling. "Time Varying and Harmonic Electromagnetic Fields MCQs" pdf covers quiz questions about ampere's law, boundary conditions, boundary value problems, charge density, curl operator, differential form of Maxwell's equations, displacement current density, divergence operator, electric charge density, electric field intensity, electric flux density, electromagnetic field theory, electromagnetic spectrum, Cuclidean plane, gauss's law, introduction to electromagnetic fields, introduction to electromagnetic theory, Laplacian operator, Lorentz force, magnetic charge density, magnetic field intensity, magnetic flux density, Maxwell's equations, oscillations, photon energy, and surface current density.

Microwave Journal 2007

5G and E-Band Communication Circuits in Deep-Scaled CMOS Marco Vigilante 2018-02-07 This book discusses design techniques, layout details and measurements of several key analog building blocks that currently limit the performance of 5G and E-Band transceivers implemented in deep-scaled CMOS. The authors present recent developments in low-noise quadrature VCOs and tunable inductor-less frequency dividers. Moreover, the design of low-loss broadband transformer-based filters that realize inter-stage matching, power division/combining and impedance transformation is discussed in great detail. The design and measurements of a low-noise amplifier, a downconverter and a highly-linear power amplifier that leverage the proposed techniques are shown. All the prototypes were realized in advanced nanometer scaled CMOS technologies without RF thick to metal option.

International Workshop on Finite Elements for Microwave Engineering Roberto D. Graglia 2016-05-09 When Courant prepared the text of his 1942 address to the American Mathematical

Society for publication, he added a two-page Appendix to illustrate how the variational methods first described by Lord Rayleigh could be put to wider use in potential theory. Choosing piecewise-linear approximants on a set of triangles which he called elements, he dashed off a couple of two-dimensional examples and the finite element method was born. Finite element activity in electrical engineering began in earnest about 1968-1969. A paper on waveguide analysis was published in *Alta Frequenza* in early 1969, giving the details of a finite element formulation of the classical hollow waveguide problem. It was followed by a rapid succession of papers on magnetic fields in saturable materials, dielectric loaded waveguides, and other well-known boundary value problems of electromagnetics. In the decade of the eighties, finite element methods spread quickly. In several technical areas, they assumed a dominant role in field problems. P.P. Silvester, San Miniato (PI), Italy, 1992 Early in the nineties the International Workshop on Finite Elements for Microwave Engineering started. This volume contains the history of the Workshop and the Proceedings of the 13th edition, Florence (Italy), 2016 . The 14th Workshop will be in Cartagena (Colombia), 2018.

Electronics Communication Engineering MCQ Manoj Dole 2021-02-01 Electronics & Communication Engineering is a simple e-Book for Electronics & Communication Diploma & Engineering Course Revised Syllabus in 2018, It contains objective questions with underlined & bold correct answers MCQ covering all topics including all about the latest & Important about Professional Communication, Industrial Management and Entrepreneurship Development, Applied Mathematics III, Electrical Engineering, Environmental Education & Disaster Management, Applied Physics, Industrial Electronics & Transducers, Communication System, Applied Chemistry, Network Filters & Transmission Lines, Electronic Instruments And Measurement., Applied Mechanics, Electronic Devices and Circuits., Construction Management, Accounts & Entrepreneurship Development, Engineering Mechanics & Materials, Principles of Communication Engineering., Audio and Video System, Electrical Engineering I, Principles of Digital Electronics, Television Engineering, Electronic Components and Devices., Electronics Workshop., Microprocessor and Application., Technical Drawing., Programming in C & C++, Project -I. Problem, Elementary Workshop Practice., Computer Application for Engineering, Modern Communication System, Microelectronics, Electronic Equipment Testing, Advance, Microprocessor & Interface Microwave & Radar Engineering, Modern Consumer Electronics Appliances, Bio-Medical Electronics and lots more.

Microwaves in Organic Synthesis Antonio de la Hoz 2013-02-26 The third edition of the bestselling two-volume reference covers everything you need to know about microwave technology for synthesis - from the best equipment to nonthermal effects, from solid-support reactions to catalysis. Completely revised and updated with half of the authors completely new to the project, this comprehensive work is clearly divided into two parts on the fundamentals of microwave irradiation, and application of microwaves and synergies with other enabling techniques. Also new to this edition are chapters on on-line monitoring, flow chemistry, combination with ultrasounds and natural products, including multicomponent reactions. An indispensable source for organic, catalytic, physical, and medicinal chemists.

Microwave Engineering Ahmad Shahid Khan 2014-05-22 Detailing the active and passive aspects of microwaves, *Microwave Engineering: Concepts and Fundamentals* covers everything from wave propagation to reflection and refraction, guided waves, and transmission lines, providing a comprehensive understanding of the underlying principles at the core of microwave engineering. This encyclopedic text not onl

Proceedings of the ... Intersociety Energy Conversion Engineering Conference 1977

Microwaves 1977