

Hermann A. Haus


# Electromagnetic Noise and Quantum Optical Measurements



Springer

# Electromagnetic Noise And Quantum Optical Measurements

**H.A. Haus**



## **Electromagnetic Noise And Quantum Optical Measurements:**

**Electromagnetic Noise and Quantum Optical Measurements** Hermann A. Haus, 2012-12-06 Electromagnetic Noise and Quantum Optical Measurements is the result of more than 40 years of research and teaching The first three chapters provide the background necessary to understand the basic concepts Then shot noise and thermal noise are discussed followed by linear noisy multiparts the quantum theory of waveguides and resonators an analysis of phase insensitive systems detection photon probability distributions solitons phase sensitive amplification squeezing the quantum theory of solitons and squeezing and quantum non demolition measurements Rich appendices give additional information The book is intended for graduate students and scientists in physics and engineering Numerous problems and selected solutions will help readers to deepen their knowledge

**Electromagnetic Noise and Quantum Optical Measurements** Hermann A. Haus, 2010-12-07 From the reviews Haus book provides numerous insights on topics of wide importance and contains much material not available elsewhere in book form an indispensable resource for those working in quantum optics or electronics Optics Photonics News

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**Electromagnetic Noise And Quantum Optical Measurements** H.A. Haus, Quantum Machines: Measurement and Control of Engineered Quantum Systems Michel Devoret, Benjamin Huard, Robert Schoelkopf, Leticia F. Cugliandolo, 2014-06-12 This book gathers the lecture notes of courses given at the 2011 summer school in theoretical physics in Les Houches France Session XCVI What is a quantum machine Can we say that lasers and transistors are quantum machines After all physicists advertise these devices as the two main spin offs of the understanding of quantum mechanical phenomena However while quantum mechanics must be used to predict the wavelength of a laser and the operation voltage of a transistor it does not intervene at the level of the signals processed by these systems Signals involve macroscopic collective variables like voltages and currents in a circuit or the amplitude of the oscillating electric field in an electromagnetic cavity resonator In a true quantum machine the signal collective variables which both inform the outside on the state of the machine and receive controlling instructions must themselves be treated as quantum operators just as the position of the electron in a hydrogen atom Quantum superconducting circuits quantum dots and quantum nanomechanical resonators satisfy the definition of quantum machines These mesoscopic systems exhibit a few collective dynamical variables whose fluctuations are well in the quantum regime and whose measurement is essentially limited in precision by the Heisenberg uncertainty principle Other engineered quantum systems based on natural rather than artificial degrees of freedom can also qualify as quantum machines trapped ions single Rydberg atoms in superconducting cavities and lattices of ultracold atoms This book provides the basic knowledge needed to understand and investigate the physics of these novel

systems     An Introduction to Quantum Optics and Quantum Fluctuations Peter W. Milonni, 2019-01-31 This is an introduction to the quantum theory of light and its broad implications and applications A significant part of the book covers material with direct relevance to current basic and applied research such as quantum fluctuations and their role in laser physics and the theory of forces between macroscopic bodies Casimir effects The book includes numerous historical sidelights throughout and approximately seventy exercises The book provides detailed expositions of the theory with emphasis on general physical principles Foundational topics in classical and quantum electrodynamics are addressed in the first half of the book including the semiclassical theory of atom field interactions the quantization of the electromagnetic field in dispersive and dissipative media uncertainty relations and spontaneous emission The second half begins with a chapter on the Jaynes Cummings model dressed states and some distinctly quantum mechanical features of atom field interactions and includes discussion of entanglement the no cloning theorem von Neumann's proof concerning hidden variable theories Bell's theorem and tests of Bell inequalities The last two chapters focus on quantum fluctuations and fluctuation dissipation relations beginning with Brownian motion the Fokker Planck equation and classical and quantum Langevin equations Detailed calculations are presented for the laser linewidth spontaneous emission noise photon statistics of linear amplifiers and attenuators and other phenomena Van der Waals interactions Casimir forces the Lifshitz theory of molecular forces between macroscopic media and the many body theory of such forces based on dyadic Green functions are analyzed from the perspective of Langevin noise vacuum field fluctuations and zero point energy     *A Guide to Experiments in Quantum Optics* Hans-A. Bachor, Timothy C. Ralph, 2019-07-10 Provides fully updated coverage of new experiments in quantum optics This fully revised and expanded edition of a well established textbook on experiments on quantum optics covers new concepts results procedures and developments in state of the art experiments It starts with the basic building blocks and ideas of quantum optics then moves on to detailed procedures and new techniques for each experiment Focusing on metrology communications and quantum logic this new edition also places more emphasis on single photon technology and hybrid detection In addition it offers end of chapter summaries and full problem sets throughout Beginning with an introduction to the subject *A Guide to Experiments in Quantum Optics* 3rd Edition presents readers with chapters on classical models of light photons quantum models of light as well as basic optical components It goes on to give readers full coverage of lasers and amplifiers and examines numerous photodetection techniques being used today Other chapters examine quantum noise squeezing experiments the application of squeezed light and fundamental tests of quantum mechanics The book finishes with a section on quantum information before summarizing of the contents and offering an outlook on the future of the field Provides all new updates to the field of quantum optics covering the building blocks models and concepts latest results detailed procedures and modern experiments Places emphasis on three major goals metrology communications and quantum logic Presents fundamental tests of quantum mechanics Schrodinger Kitten multimode entanglement photon systems as

quantum emulators and introduces the density function Includes new trends and technologies in quantum optics and photodetection new results in sensing and metrology and more coverage of quantum gates and logic cluster states waveguides for multimodes discord and other quantum measures and quantum control Offers end of chapter summaries and problem sets as new features A Guide to Experiments in Quantum Optics 3rd Edition is an ideal book for professionals and graduate and upper level students in physics and engineering science     Quantum Communication and Information Technologies Alexander S. Shumovsky,Valery I. Rupasov,2012-12-06 Remarkable recent developments in the field of quantum communications and quantum information processing include the achievement of quantum teleportation quantum communication channels based on entangled states and the discovery of quantum computing algorithms The present book addresses the physical foundations of the subject as well as the technological problems discussing such aspects as photonics quantum imaging engineered entanglement in atomic and other physical systems Bose Einstein condensation and decoherence Indispensable reading for graduates and Ph D students in departments of physics electrical and electronic engineering mathematics and computer science seeking both an orientation as well as advanced training in the field

**Lightwave Communications** George C. Papen,Richard E. Blahut,2019-01-10 This pioneering course tested text is the first to combine communications theory with the physics of optical communications Comprehensive and rigorous it brings together an in depth treatment of the physical characteristics of the guided lightwave channel with the study of modern methods of algorithmic based communication in time and space The many different levels at which a lightwave communication signal can be described are integrated to provide a unified explanation of how a commonplace bit stream is transformed into a physical lightwave how that lightwave travels through an optical fiber and how it is then transformed back into the bit stream Background fundamentals such as linear systems and electromagnetics are explained in relation to modern topics such as channel models encoding modulation and interference and end of chapter problems are provided throughout This is an essential text for students taking courses on optical communications as well as researchers and professionals working in the area     **Optical Networks and Technologies** Ken-ichi Kitayama,Francesco

Masetti-Placci,Giancarlo Prati,2006-03-12 There has continuously been a massive growth of Internet traffic for these years despite the bubble burst in year 2000 As the telecom market is gradually picking up it would be a consensus in telecom and data com industries that the CAPEX Capital Expenditures to rebuild the network infrastructure to cope with this traffic growth would be imminent while the OPEX Operational Expenditures has to be within a tight constraint Therefore the newly built 21 century network has to fully evolve from voice oriented legacy networks not only by increasing the transmission capacity of WDM links but also by introducing switching technologies in optical domain to provide full connectivity to support a wide variety of services This book stems from the technical contributions presented at the Optical Networks and Technology Conference OpNeTec inaugurated this year 2004 in Pisa Italy and collects innovations of optical network

technologies toward the 21st century network. High quality recent research results on optical networks and related technologies are presented including IP over WDM integration burst and packet switchings control and managements operation metro and access networks and components and devices in the perspective of network application. An effort has been made throughout the conference hopefully reflected at least partially in this book to bring together researchers scientists and engineers working both academia and industries to discuss the relative impact of networks on technologies and vice versa with a vision of the future.

**The Nystrom Method in Electromagnetics** Mei Song Tong, Weng Cho Chew, 2020-06-29 A comprehensive step by step reference to the Nyström Method for solving Electromagnetic problems using integral equations. Computational electromagnetics studies the numerical methods or techniques that solve electromagnetic problems by computer programming. Currently there are mainly three numerical methods for electromagnetic problems the finite difference time domain FDTD finite element method FEM and integral equation methods IEMs. In the IEMs the method of moments MoM is the most widely used method but much attention is being paid to the Nyström method as another IEM because it possesses some unique merits which the MoM lacks. This book focuses on that method providing information on everything that students and professionals working in the field need to know. Written by the top researchers in electromagnetics this complete reference book is a consolidation of advances made in the use of the Nyström method for solving electromagnetic integral equations. It begins by introducing the fundamentals of the electromagnetic theory and computational electromagnetics before proceeding to illustrate the advantages unique to the Nyström method through rigorous worked out examples and equations. Key topics include quadrature rules singularity treatment techniques applications to conducting and penetrable media multiphysics electromagnetic problems time domain integral equations inverse scattering problems and incorporation with multilevel fast multiple algorithm. Systematically introduces the fundamental principles equations and advantages of the Nyström method for solving electromagnetic problems. Features the unique benefits of using the Nyström method through numerical comparisons with other numerical and analytical methods. Covers a broad range of application examples that will point the way for future research. The Nystrom Method in Electromagnetics is ideal for graduate students senior undergraduates and researchers studying engineering electromagnetics computational methods and applied mathematics. Practicing engineers and other industry professionals working in engineering electromagnetics and engineering mathematics will also find it to be incredibly helpful.

**Fiber-Optic Communication Systems** Govind P. Agrawal, 2012-02-23 This book provides a comprehensive account of fiber optic communication systems. The 3rd edition of this book is used worldwide as a textbook in many universities. This 4th edition incorporates recent advances that have occurred in particular two new chapters. One deals with the advanced modulation formats such as DPSK QPSK and QAM that are increasingly being used for improving spectral efficiency of WDM lightwave systems. The second chapter focuses on new techniques such as all optical regeneration that are under

development and likely to be used in future communication systems All other chapters are updated as well      *Laser Spectroscopy* Wolfgang Demtröder, 2013-06-29 Keeping abreast of the latest techniques and applications this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded While the general concept is unchanged the new edition features a broad array of new material e g frequency doubling in external cavities reliable cw parametric oscillators tunable narrow band UV sources more sensitive detection techniques tunable femtosecond and sub femtosecond lasers X ray region and the attosecond range control of atomic and molecular excitations frequency combs able to synchronize independent femtosecond lasers coherent matter waves and still more applications in chemical analysis medical diagnostics and engineering      Waveguide Nonlinear-Optic Devices Toshiaki Suhara, Masatoshi Fujimura, 2013-04-17 Nonlinear optical NLO effects make possible devices that perform many functions such as wavelength conversion and signal processing while waveguides enable the devices to be both efficient and compact This book presents a systematic description of the NLO field with an emphasis on devices that use ferroelectric waveguides The earlier chapters provide an introduction to the concepts of waveguides NLO devices coupled mode formalism and phase matching Then various NLO interactions and the related characteristics are elucidated and the fabrication of waveguides and structures for quasi phase matching are discussed The volume culminates in a survey of device implementations and applications In this respect short wavelength generation devices wavelength converters for WDM photonic networks optical parametric amplifiers and ultrafast signal processing devices are examined including the most recent experimental results

Fundamentals of Microwave Photonics V. J. Urick, Keith J. Williams, Jason D. McKinney, 2015-02-06 A comprehensive resource to designing and constructing analog photonic links capable of high RF performance Fundamentals of Microwave Photonics provides a comprehensive description of analog optical links from basic principles to applications The book is organized into four parts The first begins with a historical perspective of microwave photonics listing the advantages of fiber optic links and delineating analog vs digital links The second section covers basic principles associated with microwave photonics in both the RF and optical domains The third focuses on analog modulation formats starting with a concept deriving the RF performance metrics from basic physical models and then analyzing issues specific to each format The final part examines applications of microwave photonics including analog receive mode systems high power photodiodes applications radio astronomy and arbitrary waveform generation Covers fundamental concepts including basic treatments of noise sources of distortion and propagation effects Provides design equations in easy to use forms as quick reference Examines analog photonic link architectures along with their application to RF systems A thorough treatment of microwave photonics Fundamentals of Microwave Photonics will be an essential resource in the laboratory field or during design meetings The authors have more than 55 years of combined professional experience in microwave photonics and have published more than 250 associated works      **Physics Of Communication, The - Proceedings Of The Xxii Solvay**

**Conference On Physics** Ioannis Antoniou,V Sadovnichy,Herbert Walther,2003-08-12 This volume presents the state of the art in the research on new possibilities for communication and computation based on quantum theory and nonlocality as well as related directions and problems It discusses challenging issues decoherence and irreversibility nonlocality and superluminality photonics quantum information and communication quantum computation     *Optical Coherence Tomography* Mark E. Brezinski,2006-08-25 Optical Coherence Tomography gives a broad treatment of the subject which will include 1 the optics science and physics needed to understand the technology 2 a description of applications with a critical look at how the technology will successfully address actual clinical need and 3 a discussion of delivery of OCT to the patient FDA approval and comparisons with available competing technologies The required mathematical rigor will be present where needed but be presented in such a way that it will not prevent non scientists and non engineers from gaining a basic understanding of OCT and the applications as well as the issues of bringing the technology to the market Optical Coherence Tomography is a new medical high resolution imaging technology which offers distinct advantages over current medical imaging technologies and is attracting a large number of researchers Provides non scientists and non engineers basic understanding of Optical Coherence Tomography applications and issues     **Microwave Photonics, Second Edition** Chi H. Lee,2013-03-21 Microwave photonics continues to see rapid growth The integration of optical fiber and wireless networks has become a commercial reality and is becoming increasingly pervasive Such hybrid technology will lead to many innovative applications including backhaul solutions for mobile networks and ultrabroadband wireless networks that can provide users with very high bandwidth services Microwave Photonics Second Edition systematically introduces important technologies and applications in this emerging field It also reviews recent advances in micro and millimeter wavelength and terahertz frequency systems The book features contributions by leading international researchers many of whom are pioneers in the field They examine wave generation measurement detection control and propagation in detail as well as the devices and components that enable ultrawide band and ultrafast transmission switching and signal processing These devices and components include optical controlled microwave devices optical transmitters receivers switching devices detectors and modulators The book explores the theory techniques and technologies that are fueling applications such as radio over fiber injection locked semiconductor lasers and terahertz photonics Throughout the contributors share insights on overcoming current limitations and on potential developments What s New in This Edition Two new chapters on fiber Bragg gratings for microwave photonics applications and ultrawide band sub THz photonic wireless links Updates throughout reflecting advances in the field New illustrations in each chapter Fully illustrated with more than 300 figures and tables this book offers a detailed wide ranging overview of the current state and future directions of this burgeoning technology     *Lightwave Technology* Govind P. Agrawal,2005-06-23 The state of the art of modern lightwave system design Recent advances in lightwave technology have led to an explosion of high speed global information systems throughout the world Responding to



the growth of this exciting new technology Lightwave Technology provides a comprehensive and up to date account of the underlying theory development operation and management of these systems from the perspective of both physics and engineering The first independent volume of this two volume set Components and Devices deals with the multitude of silica and semiconductor based optical devices This second volume Telecommunication Systems helps readers understand the design of modern lightwave systems with an emphasis on wavelength division multiplexing WDM systems Two introductory chapters cover topics such as modulation formats and multiplexing techniques used to create optical bit streams Chapters 3 to 5 consider degradation of optical signals through loss dispersion and nonlinear impairment during transmission and its corresponding impact on system performance Chapters 6 to 8 provide readers with strategies for managing degradation induced by amplifier noise fiber dispersion and various nonlinear effects Chapters 9 and 10 discuss the engineering issues involved in the design of WDM systems and optical networks Each chapter includes problems that enable readers to engage and test their new knowledge to solve problems A CD containing illuminating examples based on RSoft Design Group s award winning OptSim optical communication system simulation software is included with the book to assist readers in understanding design issues Finally extensive up to date references at the end of each chapter enable students and researchers to gather more information about the most recent technology breakthroughs and applications With its extensive problem sets and straightforward writing style this is an excellent textbook for upper level undergraduate and graduate students Research scientists and engineers working in lightwave technology will use this text as a problem solving resource and a reference to additional research papers in the field

**Photodetectors** Silvano Donati, 2021-01-07 Explore this comprehensive introduction to the foundations of photodetection from one of the leading voices in the field The newly revised Photodetectors Devices Circuits and Applications delivers a thoroughly updated exploration of the fundamentals of photodetection and the novel technologies and concepts that have arisen since the release of the first edition twenty years ago The book offers discussions of established and emerging photodetection technologies including photomultipliers the SPAD the SiPM the SNSPD the UTC the WSPD TSPD the QWIP and the LT GaAs New examinations of correlation measurements on ultrafast pulses and single photon detectors for quantum communications and LiDARs have also been added Each chapter includes selected problems for students to work through to aid in learning and retention A booklet of solutions is also provided The book is especially ideal for students and faculties of Engineering with an emphasis on first principles design and the engineering of photodetectors Issues in the book are grouped through the development of concepts as opposed to collections of technical details Perfect for undergraduate students interested in the science or design of modern optoelectronics Photodetectors Devices Circuits and Applications also belongs on the bookshelves of professors teaching PhD seminars in advanced courses on photodetection and noise as well as engineers and physicists seeking a guide to an optimum photodetection solution

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