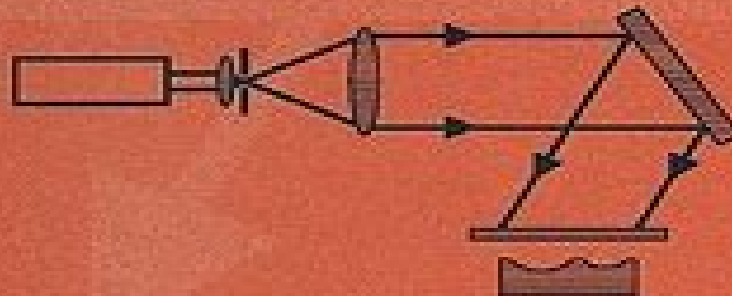


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# Coherent Optics

Fundamentals and Applications

Second Edition



Springer

# Coherent Optics Fundamentals And Applications

**Laura Marcu, Paul M. W. French, Daniel  
S. Elson**



## **Coherent Optics Fundamentals And Applications:**

Coherent Optics Werner Lauterborn, Thomas Kurz, Martin Wiesenfeldt, 2013-04-17 Coherent Optics presents in a concise and lively overview easy access to the fundamentals and modern aspects of this field From text based on coherence and its measurement the reader gains access to the fields of interferometry holography and Fourier optics while becoming acquainted with methods of coherent optical techniques of measurement From the multitude of nonlinear optical phenomena the following topics are particularly discussed the laser with its nonlinear dynamics tree wave interference the optical parametric amplifier and nonlinear fibre optics including solitons for signal transmission Many examples and exercises with complete solutions make this book a valuable study text

**Coherent Optics** Werner Lauterborn, Thomas Kurz, 2013-03-09 Since the advent of the laser coherent optics has developed at an ever increasing pace There is no doubt about the reason Coherent light with its properties so different from the light we are surrounded by lends itself to numerous applications in science technology and life The bandwidth of coherent optics reaches from holography and interferometry with its gravitational wave detectors to the CD player for music movies and computers from the laser scalpel which allows surgical cutting in the interior of the eye without destruction of the layers penetrated in front of it to optical information and data processing with its great impact on society According to its importance the foundations of coherent optics should be conveyed to students of natural sciences as early as possible to better prepare them for their future careers as physicists or engineers The present book tries to serve this need to promote the foundations of coherent optics Special attention is paid to a thorough presentation of the fundamentals This should enable the reader to follow the contemporary literature from a firm basis The wealth of material of course makes necessary a restriction of the topics included Therefore from the main areas of optics wave optics and the classical description of light is given most of the space available The book starts with a quick trip through the history of physics from the viewpoint of optics

**Fundamentals of Photonics** Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing

applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated

Mathematical Optics Vasudevan Lakshminarayanan, María L. Calvo, Tatiana Alieva, 2018-10-08 Going beyond standard introductory texts *Mathematical Optics Classical Quantum and Computational Methods* brings together many new mathematical techniques from optical science and engineering research Profusely illustrated the book makes the material accessible to students and newcomers to the field Divided into six parts the text presents state of the art mathematical methods and applications in classical optics quantum optics and image processing Part I describes the use of phase space concepts to characterize optical beams and the application of dynamic programming in optical waveguides Part II explores solutions to paraxial linear and nonlinear wave equations Part III discusses cutting edge areas in transformation optics such as invisibility cloaks and computational plasmonics Part IV uses Lorentz groups dihedral group symmetry Lie algebras and Liouville space to analyze problems in polarization ray optics visual optics and quantum optics Part V examines the role of coherence functions in modern laser physics and explains how to apply quantum memory channel models in quantum computers Part VI introduces super resolution imaging and differential geometric methods in image processing As numerical symbolic computation is an important tool for solving numerous real life problems in optical science many chapters include Mathematica code in their appendices The software codes and notebooks as well as color versions of the book s figures are available at [www.crcpress.com](http://www.crcpress.com)

**Fluorescence Lifetime Spectroscopy and Imaging** Laura Marcu, Paul M. W. French, Daniel S. Elson, 2014-07-17 During the past two decades there has been an increasing appreciation of the significant value that lifetime based techniques can add to biomedical studies and applications of fluorescence Bringing together perspectives of different research communities *Fluorescence Lifetime Spectroscopy and Imaging Principles and Applications in Biomedical Dia*

*Coherent X-ray diffractive imaging on the single-cell-level of microbial samples* Robin Niklas Wilke, 2015 Since its first experimental demonstration in 1999 Coherent X Ray Diffractive Imaging has become one of the most promising high resolution X Ray imaging techniques using coherent radiation produced by brilliant synchrotron storage rings The ability to directly invert diffraction data with the help of advanced algorithms has paved the way for microscopic investigations and wave field analyses on the spatial scale of nanometres without the need for inefficient imaging lenses X Ray phase contrast which is a measure of the electron density is an important contrast mode of soft biological specimens For the case of many dominant elements of soft biological matter the electron density can be converted into an effective mass density offering a unique quantitative information channel which may shed light on important questions such as DNA compaction in the bacterial nucleoid through weighing with light In this work X Ray phase contrast maps have been obtained from different biological samples by exploring different methods In particular the techniques Ptychography and Waveguide Holographic Imaging have been used to obtain twodimensional and three dimensional mass density maps on the single cell level of freeze dried cells of the bacteria *Deinococcus radiodurans* *Bacillus subtilis* and *Bacillus thuringiensis* allowing for

instance to estimate the dry weight of the bacterial genome in a near native state On top of this reciprocal space information from coherent small angle X Ray scattering cellular Nano Diffraction of the fine structure of the bacterial cells has been recorded in a synergistic manner and has been analysed down to a resolution of about 2 3 nm exceeding current limits of direct imaging approaches Furthermore the dynamic range of present detector technology being one of the major limiting factors of ptychographic phasing of farfield diffraction data has been significantly increased Overcoming this problem for the case of the very intense X Ray beam produced by Kirkpatrick Baez mirrors has been explored by using semi transparent central stops

New Techniques in Digital Holography Pascal Picart,2015-02-23 A state of the art presentation of important advances in the field of digital holography detailing advances related to fundamentals of digital holography in line holography applied to fluid mechanics digital color holography digital holographic microscopy infrared holography special techniques in full field vibrometry and inverse problems in digital holography

**Handbook of Time Series Analysis** Björn Schelter,Matthias Winterhalder,Jens Timmer,2006-12-13 This handbook provides an up to date survey of current research topics and applications of time series analysis methods written by leading experts in their fields It covers recent developments in univariate as well as bivariate and multivariate time series analysis techniques ranging from physics to life sciences applications Each chapter comprises both methodological aspects and applications to real world complex systems such as the human brain or Earth s climate Covering an exceptionally broad spectrum of topics beginners experts and practitioners who seek to understand the latest developments will profit from this handbook

Synchronization in Oscillatory Networks Grigory V. Osipov,Jürgen Kurths,Changsong Zhou,2007-08-10 This work systematically investigates a large number of oscillatory network configurations that are able to describe many real systems such as electric power grids lasers or even the heart muscle to name but a few The book is conceived as an introduction to the field for graduate students in physics and applied mathematics as well as being a compendium for researchers from any field of application interested in quantitative models

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