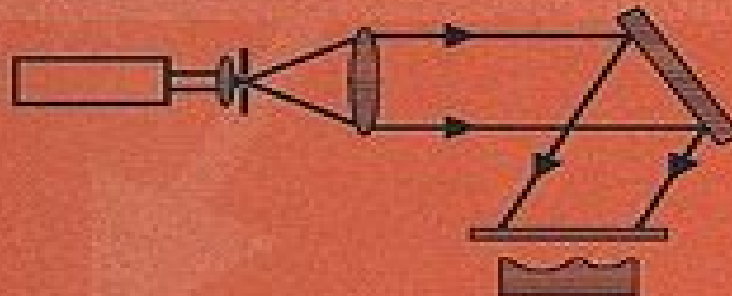


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# Coherent Optics

Fundamentals and Applications

Second Edition



Springer

# Coherent Optics Fundamentals And Applications

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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

*Coherent Optics* Werner Lauterborn,Thomas Kurz,Martin Wiesenfeldt,1995 **Coherent Optics** Werner Lauterborn,Thomas Kurz,Martin Wiesenfeldt,2014-03-12 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 *Fundamentals and Applications of Biophotonics in Dentistry* Anil Kishen,Anand Asundi,2007 Few people realize that the Comanche Indians were the greatest warring tribe in American history Their forty year battle with settlers held up the development of the new nation Empire of the Summer Moon tells of the rise and fall of

this fierce powerful and proud tribe and begins in 1836 with the kidnapping of a lovely nine year old girl with cornflower blue eyes named Cynthia Ann Parker She grew to love her captors and eventually became famous as the White Squaw She married a powerful Comanche chief and their son Quanah became a warrior who was never defeated and whose bravery and military brilliance in the Texas panhandle made him a legend as one of the greatest of the Plains Indian chiefs In this vivid piece of writing S C Gwynne describes in sometimes brutal detail the savagery of both whites and Comanches and despite the distance of time demonstrates how truly shocking these events were juxtaposed against the haunting story of an unforgettable figure of a woman caught between two worlds

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

Particle Image Velocimetry Markus Raffel,Christian E. Willert,Fulvio Scarano,Christian J. Kähler,Steve T. Wereley,Jürgen Kompenhans,2018-04-03 This immensely practical guide to PIV provides a condensed yet exhaustive guide to most of the information needed for experiments employing the technique This second edition has updated chapters on the principles and extra information on microscopic high speed and three component measurements as well as a description of advanced evaluation techniques What s more the huge increase in the range of possible applications has been taken into account as the chapter describing these applications of the PIV technique has been expanded

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**Optical Holography** Pierre-Alexandre Blanche,2019-10-23 Optical Holography Materials Theory and Applications provides researchers the fundamentals of holography through diffraction optics and an overview of the most relevant materials and applications ranging from computer holograms to holographic data storage Dr Pierre Blanche leads a team of thought leaders in academia and industry in this practical reference for researchers and engineers in the field of holography This

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*Handbook of Optics: Fundamentals, techniques, and design* Optical Society of America, 1995 Annotation A new volume in the field s bestselling optics reference an entirely new opus focusing on x ray nonlinear and vision optics Provides the same mix of tutorial writing with in depth reference material that distinguished Volumes I II

**Proceedings, 1997 IEEE Conference on Information Visualization** IEEE Computer Society, 1997

Contents of these papers on computer graphics include basic concepts and infrastructure for information visualization viewing and selecting information demonstrations and applications of information visualization

*International Books in Print*, 1997

*Instrumentation Technology*, 1976

**Subject Guide to Books in Print**, 1996

**Advances in Studies of Heterogeneities in the Earth's Lithosphere** Yehuda Ben-Zion, William H. K. Lee, 2006-04-19 This second special issue is in honor of Keiiti Aki It focuses on recent advances in quantifying and interpreting heterogeneities in lithospheric structures and earthquake behavior The volume provides a combination of reviews methodological studies and applications on topics related to Aki s pioneering contributions The discussed subjects include research associated with dynamic earthquake rupture It also

includes material on Aki and a list of his publications *College of Engineering* University of Michigan. College of Engineering, 1981

**Phase-Space Optics: Fundamentals and Applications** Markus Testorf, Bryan Hennelly, Jorge Ojeda-Castaneda, 2009-09-07 A comprehensive cross section of phase space optics This definitive volume highlights an elegant unified approach to optical rays waves and system design using cutting edge phase space techniques Phase Space Optics Fundamentals and Applications details theoretical concepts of phase space as well as novel engineering applications in specific disciplines This authoritative guide includes full coverage of sampling superresolution imaging and the phase space interpretation of ultrafast optics Work with Wigner optics analyze phase space equations develop wave propagation models and gain a new understanding of optical sources and systems Discover how to Describe optical phenomena using Wigner and ambiguity functions Perform phase space rotations using ray transformation matrices Influence the trade off between pupil size and depth of field Analyze and design optical signals using the Radon Wigner transform Accomplish superresolution by squeezing phase space Interpret the intimate relationship between radiometry and coherence Use basic algebra to discover self imaging Fresnel diffraction and the Talbot effect Develop discrete models sampling criteria and interpolation formulae Work with ultrafast processes and complex space time structures

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