# DEMONSTRATIONAL OPTICS

Part 2: Coherent and Statistical Optics



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# <u>Demonstrational Optics Part 2 Coherent And Statistical</u> <u>Optics Pt 2</u>

**EW Minium** 

### **Demonstrational Optics Part 2 Coherent And Statistical Optics Pt 2:**

Demonstrational Optics Oleg Marchenko, Sergi Kazantsev, Laurentius Windholz, 2009-06-02 Demonstrational Optics presents a new didactical approach to the study of optics Emphasizing the importance of elaborate new experimental demonstrations pictorial illustrations computer simulations and models of optical phenomena in order to ensure a deeper understanding of wave and geometric optics It includes problems focused on the pragmatic needs of students secondary school teachers university professors and optical engineers Part 2 Coherent and Statistical Optics contains chapters on interference diffraction Fourier optics light quanta thermal radiation Shot noise and Gaussian light Correlation of light fields and Correlation of light intensities A substantial part of this volume is devoted to thermal radiation and its properties especially with partial coherence A detailed treatment of the photo effect with respect to statistical properties leads to the basics of statistical optics To illustrate the phenomena covered by this volume a large number of demonstration experiments are described and discussed In the chapters devoted to statistical phenomena computer simulations are described the code of all relevant programs being included <u>Demonstrational Optics</u> Oleg Marchenko, Sergi Kazantsev, Laurentius Windholz, 2006-12-06 This book presents a new didactical approach to the study of optics It emphasizes the importance of elaborate new experimental demonstrations containing pictorial illustrations computer simulations and models of optical phenomena in order to ensure a deeper understanding of wave and geometric optics. It includes problems focused on the pragmatic needs of students secondary school teachers university professors and optical engineers A substantial part of this volume is devoted to thermal radiation and its properties especially with partial coherence. The book contains detailed descriptions of demonstrational experiments Scientific and Technical Aerospace Reports, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Physics Briefs ,1992 **Applied Science &** Technology Index ,1981 Government Reports Annual Index ,1985 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z **Nuclear Science Abstracts** ,1967 INIS Atomindeks, 1985 International Books in Print ,1986 **Student-staff Directory** University of Minnesota, 1976 **Commerce Business Daily** ,1998-03 Government Reports Announcements & Index ,1995 **Engineers of Distinction** ,1973 **Optics** Index ,1990 **International Aerospace Abstracts** ,1997 **Paperbound Books in Print 1995** Reed Reference Publishing, R5 ference Reed, 1995-12 Bureau of Mines Research ,1976 Conference Papers Index ,1980 Energy Research Abstracts ,1994 Science Citation Index ,1994 Vols for 1964 have guides and journal lists

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