

# DEMONSTRATIONAL OPTICS

## Part 2: Coherent and Statistical Optics



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# Demonstrational Optics Part 2 Coherent And Statistical Optics Pt 2

**Oleg Marchenko, Sergi  
Kazantsev, Laurentius Windholz**



## **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

**Demonstrational Optics** 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

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here is also used to illustrate many basic phenomena complimenting the existing literature The volume contains a valuable compendium of optical experiments for university college and senior school physics teachers Experiments and modern computer simulations are described within the volume in sufficient detail to allow successful reproduction in a classroom or lecture theatre *Demonstrational Optics* Oleg M. Marchenko, Sergi Kazantsev, Laurentius Windholz, 2003-12-31

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**Theoretical Statistical Optics** Olga Korotkova, 2021-08-10 This monograph overviews classic and recent developments in theoretical statistical optics in connection with stationary and non stationary pulsed optical source characterization and modeling discusses various phenomena occurring with random light propagating in free space on its interaction with optical systems extended media and particulate collections The text includes scalar beam like and general electromagnetic

treatment of light A brief statistical description of four fundamental experiments relating to random light spatial and temporal field interference intensity interferometry and phase conjugation is also included in order to relate the analytical descriptions with practical observations Rigorous mathematical methods for statistical manipulation of light sources useful for remote shaping of its various average properties enhanced image resolution optimized transmission in random media and for other applications are introduced For illustration of efficient ways for manipulation of light polarization the generalized Stokes Mueller calculus is applied for description of interaction of beam like fields with classic and currently popular devices of polarization optics including a spatial light modulator Random light plays a special role in the image formation process Three imaging modalities including the classic intensity based system with structured source correlations the polarization based imaging system and the ghost interference approach are discussed in detail Theoretical aspects of potential scattering of light from weakly scattering media are considered under a very broad range of assumptions scalar electromagnetic incident light deterministic random light media single particulate media Then problems and methods in light characterization on interaction with extended turbulent like natural media such as the Earth s atmosphere oceans and soft bio tissues that are currently widely used for communication remote sensing and imaging purposes in these media are provided

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web created by plasticspoonboi terms in this set 24 q1 1 use the histogram to answer how many snails in the sample had shell thickness 13 5 q1 2 which snail population has the larger average shell thickness the population from 1980s q1 3 which snail population has the larger range of variation in shell thickness the population from 1871

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web in this lab you will be studying the impact of shell thickness on the survival of individual snails and the impact of natural selection on a snail population grading the questions that are part of each of the first 5 sections of the simutext will

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web darwinian snails is a simbio virtual lab that presents a model that demonstrates the process of evolution through natural selection the lab examines the assumptions behind natural selection using an interactive simulation of green crabs preying on periwinkle snails