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Ariel Lipson is Senior Physicist at BrightView Systems Ltd, Israel. He has contributed to three successful start-up companies in optics, which have influenced several of the topics discussed in...

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analysis, it shows how this method can be used to describe wave propagation and diffraction and their applications to imaging, microscopy, X-ray crystallography, radio-astronomy and communication.

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Optical Physics is a thorough, up-to-date text on the fascinating and technologically important field of optics that is highly suitable as a text for an advanced undergraduate course for science and engineering students, but it may also serve as a good reference and refresher for graduate students and scientists who work in the field of optics.'

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Prof. Michal Lipson Named 2021 John Tyndall Award ...

Lipson honored for her pioneering work in photonics. Updates and Guidance. For operational updates and health guidance from the University, please visit the COVID-19 Resource Guide.. To learn more about the fall semester, please visit the Fall Updates for Students page.

This fourth edition of a well-established textbook takes students from fundamental ideas to the most modern developments in optics. Illustrated with 400 figures, it contains numerous practical examples, many from student laboratory experiments and lecture demonstrations. Aimed at undergraduate and advanced courses on modern optics, it is ideal for scientists and engineers. The book covers the principles of geometrical and physical optics, leading into quantum optics, using mainly Fourier transforms and linear algebra. Chapters are supplemented with advanced topics and up-to-date applications, exposing readers to key research themes, including negative refractive index, surface plasmon resonance, phase retrieval in crystal diffraction and the Hubble telescope, photonic crystals, super-resolved imaging in biology, electromagnetically induced transparency, slow light and superluminal propagation, entangled photons and solar energy collectors. Solutions to the problems, simulation programs, key figures and further discussions of several topics are available at www.cambridge.org/lipson.

This fourth edition of a well-established textbook takes students from fundamental ideas to the most modern developments in optics. Illustrated with 400 figures, it contains numerous practical examples, many from student laboratory experiments and lecture demonstrations. Aimed at undergraduate and advanced courses on modern optics, it is ideal for scientists and engineers. The book covers the principles of geometrical and physical optics, leading into quantum optics, using mainly Fourier transforms and linear algebra. Chapters are supplemented with advanced topics and up-to-date applications, exposing readers to key research themes, including negative refractive index, surface plasmon resonance, phase retrieval in crystal diffraction and the Hubble telescope, photonic crystals, super-resolved imaging in biology, electromagnetically induced transparency, slow light and superluminal propagation, entangled photons and solar energy collectors. Solutions to the problems, simulation programs, key figures and further discussions of several topics are available at www.cambridge.org/lipson.

A comprehensive introduction to the fundamentals of optics

From the beginning Integrated Photonics introduces numerical techniques for studying non-analytic structures. Most chapters have numerical problems designed for solution using a computational program such as Matlab or Mathematica. An entire chapter is devoted to one of the numeric simulation techniques being used in optoelectronic design (the Beam Propagation Method), and provides opportunity for students

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to explore some novel optical structures without too much effort. Small pieces of code are supplied where appropriate to get the reader started on the numeric work. Integrated Photonics is designed for the senior/first year graduate student, and requires a basic familiarity with electromagnetic waves, and the ability to solve differential equations with boundary conditions.

During the last two decades, optical stellar interferometry has become an important tool in astronomical investigations requiring spatial resolution well beyond that of traditional telescopes. This book, first published in 2006, was the first to be written on the subject. The authors provide an extended introduction discussing basic physical and atmospheric optics, which establishes the framework necessary to present the ideas and practice of interferometry as applied to the astronomical scene. They follow with an overview of historical, operational and planned interferometric observatories, and a selection of important astrophysical discoveries made with them. Finally, they present some as-yet untested ideas for instruments both on the ground and in space which may allow us to image details of planetary systems beyond our own.

The field of atomic, molecular, and optical (AMO) science underpins many technologies and continues to progress at an exciting pace for both scientific discoveries and technological innovations. AMO physics studies the fundamental building blocks of functioning matter to help advance the understanding of the universe. It is a foundational discipline within the physical sciences, relating to atoms and their constituents, to molecules, and to light at the quantum level. AMO physics combines fundamental research with practical application, coupling fundamental scientific discovery to rapidly evolving technological advances, innovation and commercialization. Due to the wide-reaching intellectual, societal, and economical impact of AMO, it is important to review recent advances and future opportunities in AMO physics. *Manipulating Quantum Systems: An Assessment of Atomic, Molecular, and Optical Physics in the United States* assesses opportunities in AMO science and technology over the coming decade. Key topics in this report include tools made of light; emerging phenomena from few- to many-body systems; the foundations of quantum information science and technologies; quantum dynamics in the time and frequency domains; precision and the nature of the universe, and the broader impact of AMO science.

Optical science, the science that studies the nature of light, can be approached from several different angles. In this third edition of a successful and well-established text, the author focuses on physical and geometrical optics. The text is based largely on Fourier analysis and shows how this method can be used to describe wave propagation and diffraction and their applications to imaging, microscopy, X-ray crystallography, radio-astronomy, and communication. Several new sections have been added, including discussions of super-resolved imaging (near field and confocal microscopy), phase-retrieval in optical and X-ray diffraction, phase-conjugate imaging, astronomical speckle masking, and squeezed-light interferometry. Throughout, the subject matter is developed by a combination of unsophisticated mathematics and physical intuition. The very broad range of subjects treated, together with the inclusion of many problems and over 300 diagrams and photographs, will make the book of great use to undergraduate and graduate students of physics, and to anyone working in the field of optical science.

Fourth edition of a well-established textbook for undergraduate courses on modern optics, with numerous practical examples and figures

Covers the basic principles and theories of engineering physics and offers a balance between theoretical concepts and their applications. It is designed as a textbook for an introductory course in engineering physics. Beginning with a comprehensive discussion on oscillations and waves with applications in the field of mechanical and electrical engineering, it goes on to explain the basic concepts such as Huygen's principle, Fresnel's biprism, Fraunhofer diffraction and polarization. Emphasis has been given to an understanding of the basic concepts and their applications to a number of engineering problems. Each topic has been discussed in detail, both conceptually and mathematically. Pedagogical features including solved problems,

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unsolved exercised and multiple choice questions are interspersed throughout the book. This will help undergraduate students of engineering acquire skills for solving difficult problems in quantum mechanics, electromagnetism, nanoscience, energy systems and other engineering disciplines.

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