

《应用光学》

图书基本信息

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内容概要

《应用光学(英文版)》, Applied Optics, is a fundamental technical course for the specialties of optical engineering, optical measurement, control instruments and electronic science and technology. The book mainly includes basic theories and methods of how to solve the problems of geometrical optics, typical optical instruments, optical measurement, color measurement, optical fiber systems, laser systems and infrared optics. The knowledge mentioned above is a must for the opto-electronic students' learning.

The Chinese edition of the book has been acknowledged as the earliest and the best classical text in China. Many Chinese universities have chosen the book as the textbook for the course. However, there is no equivalent English version for applied optics in China, which results in lacking industry wordings for Chinese students. In order to encourage them to keep up with international level and has the ability of referring to global materials during their Master Degree studies, this English version for applied optics is thus pushed forward.

The book starts with the basic theory of geometrical optics, where the imaging properties of the ideal system, the relationship between the object and the image for the symmetrical spherical system, the instruments for the human eyes, the mirror and prism systems and selection of image rays in optical systems are described. Then it discusses the radiometry and photometry, where the calculations of radiometry and photometry for various optical systems are introduced. At last, it incorporates the image quality of an optical system, where geometrical aberrations, wave aberrations and optical transfer function are described. And, the theories of telescope, microscope and camera systems are also included.

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精彩短评

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- 2、只是对我的教材的机械的翻译
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