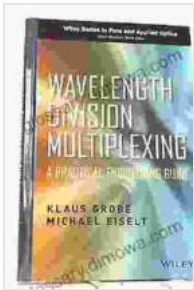


Practical Engineering Guide in Pure and Applied Optics

The most comprehensive and up-to-date resource on optics technology and applications, this book includes hundreds of illustrations, tables, and equations. Coverage includes basic optics, lens design, lasers, optical instruments, and more.



Wavelength Division Multiplexing: A Practical Engineering Guide (Wiley Series in Pure and Applied Optics) by Klaus Grobe

★★★★★ 5 out of 5

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Enhanced typesetting : Enabled
Print length : 661 pages
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Screen Reader : Supported



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Chapter 1: to Optics

This chapter provides a general overview of the field of optics. It covers the basic concepts of light and its interaction with matter. Topics include the nature of light, the electromagnetic spectrum, reflection, refraction, and diffraction.

Chapter 2: Geometrical Optics

This chapter introduces the principles of geometrical optics. These principles are used to design and analyze optical systems such as lenses, mirrors, and prisms. Topics include the laws of reflection and refraction, the thin lens equation, and the thick lens equation.

Chapter 3: Physical Optics

This chapter covers the principles of physical optics. These principles are used to understand the behavior of light in various media. Topics include interference, diffraction, and polarization.

Chapter 4: Lens Design

This chapter provides an to the principles of lens design. These principles are used to design lenses for a variety of applications. Topics include the types of lenses, the aberrations of lenses, and the optimization of lens designs.

Chapter 5: Lasers

This chapter introduces the principles of laser operation. Topics include the different types of lasers, the properties of laser light, and the applications of lasers.

Chapter 6: Optical Instruments

This chapter describes the principles of operation of various optical instruments. Topics include the microscope, the telescope, and the camera.

Chapter 7: Applications of Optics

This chapter provides an overview of the various applications of optics. These applications include imaging, spectroscopy, and optical communications.

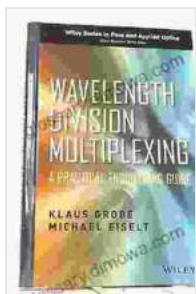
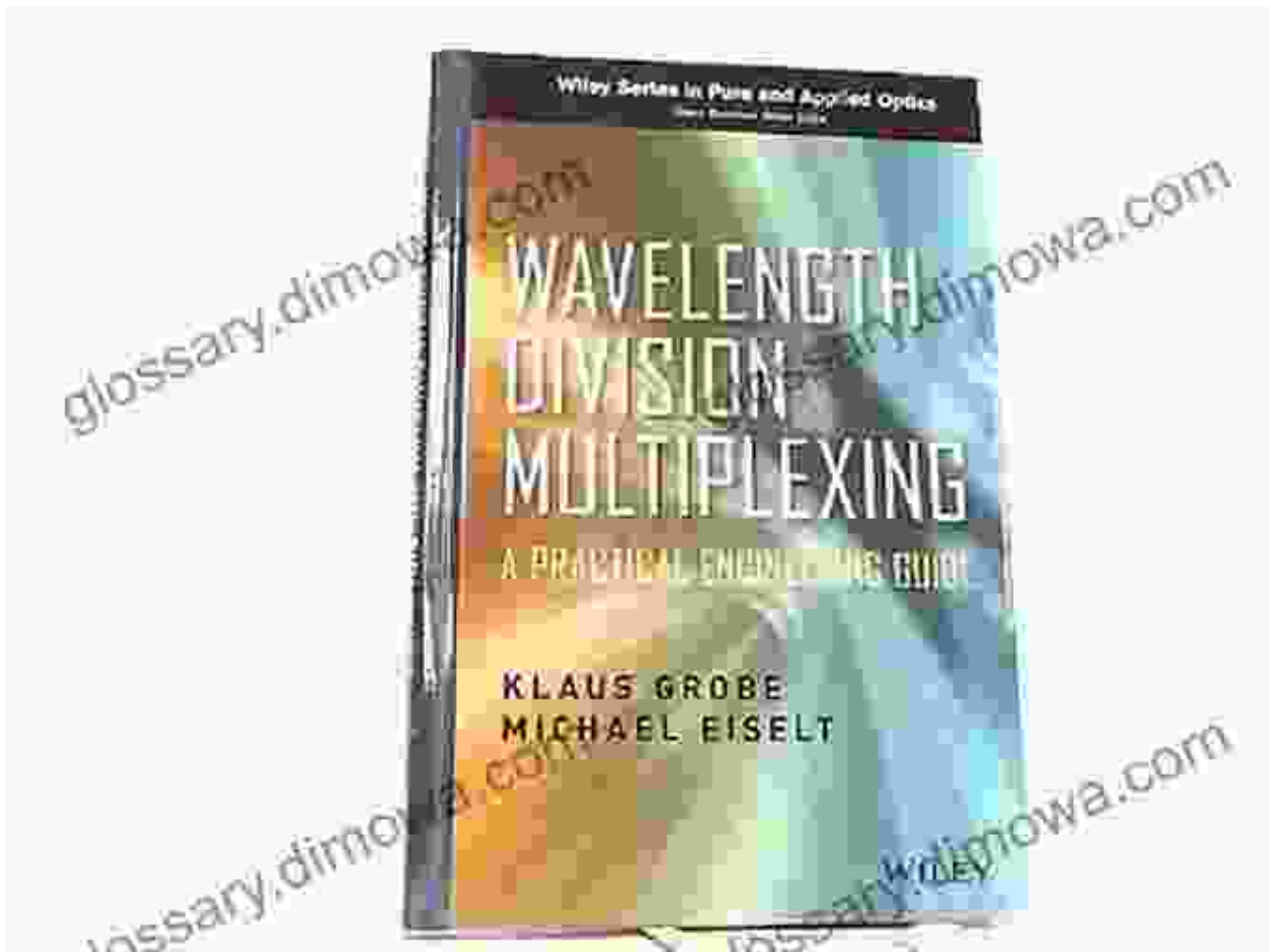
This book is a comprehensive and up-to-date resource on optics technology and applications. It is an essential reference for engineers, scientists, and students working in the field of optics.

About the Author

Dr. Warren Smith is a professor of optical engineering at the University of California, San Diego. He is the author of several books on optics, including *Modern Optical Engineering* and *Optics and Photonics: An* .

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