

Springer

1st
edition1st ed. 2016, XI, 241 p. 152
illus., 94 illus. in color.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-662-48982-6

\$ 159,99

Available

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Physics : Optics, Lasers, Photonics, Optical Devices

Wang, X., Yin, C., Cao, Z.

Progress in Planar Optical Waveguides

- Combines the transfer matrix method and the potential segmentation to study the graded-index waveguide
- Introduces a novel waveguide structure, which is very useful in improving the sensing performance
- Describes the enhanced Goos-Hänchen shift of the light beam from the symmetrical metal-cladding waveguide

This book provides a comprehensive description of various slab waveguide structures ranged from graded-index waveguide to symmetrical metal-cladding waveguide. In this book, the transfer Matrix method is developed and applied to analyze the simplest case and the complex generalizations. A novel symmetrical metal-cladding waveguide structure is proposed and systematically investigated for several issues of interest, such as biochemical sensing, Goos-Hänchen shift and the slow light effect, etc. Besides, this book summarizes the authors' research works on waveguides over the last decade. The readers who are familiar with basic optics theory may find this book easy to read and rather inspiring.

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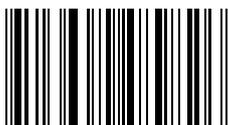
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