



# Silicon Photonics: An Introduction

*Graham T. Reed, Andrew P. Knights*

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The growing demand for instant and reliable communication means that photonic circuits are increasingly finding applications in optical communications systems. One of the prime candidates to provide satisfactory performance at low cost in the photonic circuit is silicon. Whilst silicon photonics is less well developed as compared to some other material technologies, it is poised to make a serious impact on the telecommunications industry, as well as in many other applications, as other technologies fail to meet the yield/performance/cost trade-offs. Following a sympathetic tutorial approach, this first book on silicon photonics provides a comprehensive overview of the technology. *Silicon Photonics* explains the concepts of the technology, taking the reader through the introductory principles, on to more complex building blocks of the optical circuit. Starting with the basics of waveguides and the properties peculiar to silicon, the book also features:

- Key design issues in optical circuits.
- Experimental methods.
- Evaluation techniques.
- Operation of waveguide based devices.
- Fabrication of silicon waveguide circuits.
- Evaluation of silicon photonic systems.
- Numerous worked examples, models and case studies.

*Silicon Photonics* is an essential tool for photonics engineers and young professionals working in the optical network, optical communications and semiconductor industries. This book is also an invaluable reference and a potential main text to senior undergraduates and postgraduate students studying fibre optics, integrated optics, or optical network technology.

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