



Essentials of Photonics, Second Edition (Optical and Quantum Electronics)

By Alan Rogers

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Essentials of Photonics, Second Edition (Optical and Quantum Electronics)

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The importance of photonics in science and engineering is widely recognized and will continue to increase through the foreseeable future. In particular, applications in telecommunications, medicine, astronomy, industrial sensing, optical computing and signal processing continue to become more diverse.

Essentials of Photonics, Second Edition describes the entire range of photonic principles and techniques in detail. Previously named *Essentials of Optoelectronics*, this newly named second edition of a bestseller reflects changes that have occurred in this field. The book presents a new approach that concentrates on the physical principles, demonstrating their interdependence, and developing them to explain more complex phenomena. It gives insight into the underlying physical processes in a way that is readable and easy to follow, as well as entirely self-contained.

Written by an author with many years of experience in teaching and research, this book includes a detailed treatment of lasers, waveguides (including optical fibres), modulators, detectors, non-linear optics and optical signal processing. This new edition is brought up-to-date with additional sections on photonic crystal fibres, distributed optical-fibre sensing, and the latest developments in optical-fibre communications.

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Editorial Review

About the Author

Alan Rogers holds the post of Special Professor of Adult Education in the School of Continuing Education of the University of Nottingham. He has been engaged in adult education in both community and academic contexts for nearly forty years. He served as Executive Director of Education for Development based at the University of Reading for thirteen years, retiring from that post in 1998 to freelance as an adult trainer.

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