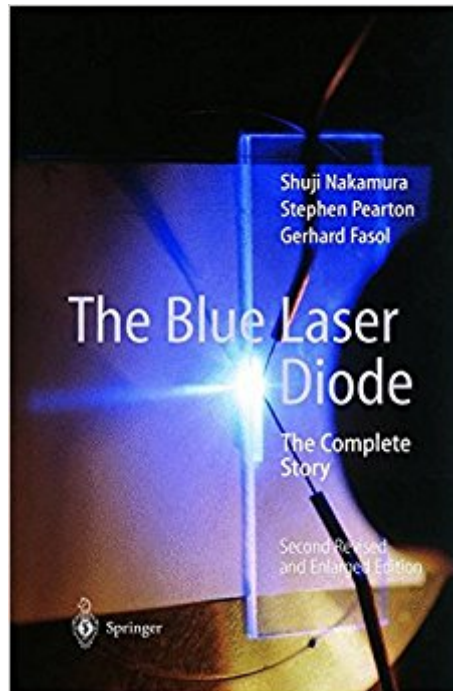




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The Blue Laser Diode: The Complete Story



Synopsis

From the reviews of the first edition: "The technical chapters will be lapped up by semiconductor specialists keen to know more [...] the book includes fascinating material that answers the question: why did Nakamura succeed where many, much larger, research groups failed." New Scientist

Book Information

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Customer Reviews

Shuji Nakamura developed the first commercially available blue and green light emitting diodes and the first blue semiconductor laser based on GaN. GaN and its related compounds allow the fabrication of highly efficient light emitters and lasers ranging from red through yellow and green to blue in a single material. In this book the scientific basis of GaN light emitting devices and the physical concept and basic manufacturing technology of these new blue light emitting diodes and laser diodes are discussed. The breakthrough in GaN technology opens many new commercial applications for semiconductors, including displays, road and railway signalling, lighting, scanners, optical data storage, and much more. The new application field of power devices is also discussed. This second edition is not only updated but also significantly enlarged. The whole spectrum of GaN related materials, processing and application problems is contained, thus making this book the most comprehensive basic book in the field. It also tells the fascinating story of the extremely successful realization of Nakamura's research and development concept. The book will appeal to both researchers and engineers.

FROM A REVIEW OF THE FIRST EDITION"The technical chapters will be lapped up by semiconductor specialists keen to know more ... the book includes fascinating material that answers the question: why did Nakamura succeed where many, much larger, research groups failed."(NEW SCIENTIST)

Subtitled 'The Complete Story' - it is not - it's just the early years of the story. Whilst this is a very instructive book and a great introduction to the blue laser diode story and technical detail, plenty of others contributed significantly to the blue laser diode story -- but that is not much of what you read in this 'bio' of Nakamura-san. At least you get some brief references to other teams' contributions. The book reads like a set of 'cut-and-pastes' from Nakamura and his team's research papers - which is no bad thing. It's certainly good to have so much really useful material in one place.

This book is by far, the best book I have read about the latest Blue Laser Technology. I give the content and organization of information my highest regard.

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