



Laser Beam Shaping: Theory and Techniques, Second Edition

From CRC Press



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Laser Beam Shaping: Theory and Techniques addresses the theory and practice of every important technique for lossless beam shaping. Complete with experimental results as well as guidance on when beam shaping is practical and when each technique is appropriate, the **Second Edition** is updated to reflect significant developments in the field. This authoritative text:

- Features new chapters on axicon light ring generation systems, laser-beam-splitting (fan-out) gratings, vortex beams, and microlens diffusers
- Describes the latest advances in beam profile measurement technology and laser beam shaping using diffractive diffusers
- Contains new material on wavelength dependence, channel integrators, geometrical optics, and optical software

Laser Beam Shaping: Theory and Techniques, Second Edition not only provides a working understanding of the fundamentals, but also offers insight into the potential application of laser-beam-profile shaping in laser system design.

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Editorial Review

Review

"... an authoritative account on the theoretical aspects underlying the field of laser beam shaping. Written in a formal and clear style, the book ensures each topic is developed in detail, from the basic concepts to more elaborate ones, and always supported by an excellent mathematical treatment. ... The authors have done an excellent work by identifying the fundamental aspects of laser beam shaping, and have managed to put [the information] all in one place in a clear, coherent, and easy-to-follow way, making this book a self-contained and valuable reference for the engineer, scientist, student, or anyone with a need for using laser beam shaping techniques."

?Raul Hernandez, Department of Physics, Tecnológico de Monterrey, Mexico

"This is a super follow up to the first edition, which is already established as the reference text on the subject. If you want to get started with laser beam shaping, this is a good text to begin from. I think it will be useful to those with an academic interest in the subject, as well as to those who wish to simply get going with a practical laser beam shaping application. I will certainly use the book myself and would happily recommend it to others."

?Prof. Andrew Forbes, CSIR National Laser Centre, Pretoria, South Africa

"... covers the major technical areas of beam shaping in outstanding detail and clarity. ... The clear, careful, and rigorous descriptions make this easy to read and easy to absorb."

?Sandra G. Biedron, Ph.D, Advanced Beam Laboratory, Colorado State University Foothills Campus, Fort Collins, USA

"... addresses the theory and practice of very important techniques for lossless laser beam shaping. New beam shaping methods, advanced beam profile measurement, and new material on optics and software have been added. This book is ... a valuable tool for optical engineers, scientists, and students."

?Lisa Tongning Li, Inphenix, Inc, Livermore, California, USA, from *Optics & Photonics News*, February 19, 2015

About the Author

Fred M. Dickey received his BS (1964) and MS (1965) degrees from Missouri University of Science and Technology, Rolla, USA, and his Ph.D degree (1975) from the University of Kansas, Lawrence, USA. A SPIE fellow and IEEE senior member, he heads FMD Consulting, LLC, Springfield, Missouri, USA. He is the author of over 100 papers and book chapters, holds 9 patents, and started the SPIE Laser Beam Shaping Conference (currently in its 15th year). He chaired the conference for the first 8 years, and now serves as a committee member.

Users Review

From reader reviews:

John Richey:

Information is provisions for individuals to get better life, information currently can get by anyone on everywhere. The information can be a expertise or any news even a concern. What people must be consider while those information which is inside the former life are challenging be find than now's taking seriously which one is suitable to believe or which one typically the resource are convinced. If you receive the unstable resource then you understand it as your main information it will have huge disadvantage for you. All those possibilities will not happen in you if you take Laser Beam Shaping: Theory and Techniques, Second Edition as the daily resource information.

Roger Bennett:

Exactly why? Because this Laser Beam Shaping: Theory and Techniques, Second Edition is an unordinary book that the inside of the guide waiting for you to snap the item but latter it will zap you with the secret that inside. Reading this book close to it was fantastic author who have write the book in such wonderful way makes the content within easier to understand, entertaining way but still convey the meaning fully. So , it is good for you for not hesitating having this anymore or you going to regret it. This book will give you a lot of rewards than the other book possess such as help improving your ability and your critical thinking means. So , still want to hesitate having that book? If I were being you I will go to the guide store hurriedly.

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