

COMPLEX SPACE SOURCE THEORY OF SPATIALLY LOCALIZED ELECTROMAGNETIC WAVES

S.R.SESHADRI

This book presents an authoritative treatment of electromagnetic waves and develops complex space source theory as a branch of Fourier Optics.

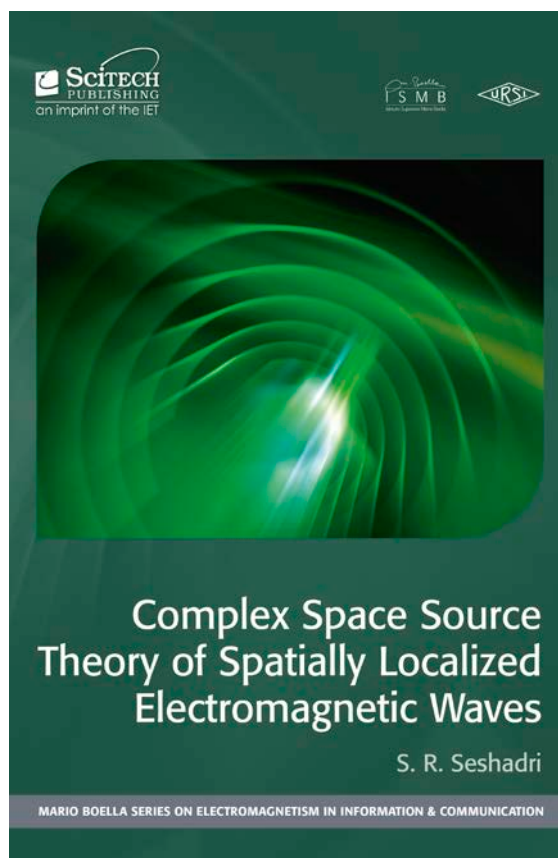
- Includes an essential background discussion of the many applications and drawbacks for paraxial beams
- Treats the exact full-wave generalizations of all the basic types of paraxial beam solutions and develops complex space source theory as a branch of Fourier Optics
- Introduces and carefully explains original analytical techniques
- Includes a treatment of partially coherent and partially incoherent waves
- Provides treatment of the newly developing area of Airy beams and waves

READERSHIP

The book will be of interest to graduate students in applied physics, electrical engineering and applied mathematics, teachers and researchers in the area of electromagnetic wave propagation and specialists in mathematical methods in electromagnetic theory.

AUTHOR INFORMATION

S. R. Seshadri is an independent researcher working for the past 15 years in the area of physical optics, small antennas, and mathematical methods in electromagnetic theory. During this period, he has authored approximately 30 journal papers, 20 professional conference presentations, 50 manuscript reviews for professional journals and presented numerous lectures in Japanese universities.



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