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Luca Dal Negro

OPTICS OF APERIODIC STRUCTURES

Fundamentals and Device Applications



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Optics Of Aperiodic Structures Fundamentals And Device Applications

Luca Dal Negro

Optics Of Aperiodic Structures Fundamentals And Device Applications:

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Waves in Complex Media Luca Dal Negro,2022-05-04 This book offers a clear and interdisciplinary introduction to the structural and scattering properties of complex photonic media focusing on deterministic aperiodic structures and their conceptual roots in geometry and number theory It integrates important results and recent developments into a coherent and physically consistent story balanced between mathematical designs scattering and optical theories and engineering device applications The book includes discussions of emerging device applications in metamaterials and nano optics technology Both academia and industry will find the book of interest as it develops the underlying physical and mathematical background in partnership with engineering applications providing a perspective on both fundamental optical sciences and photonic device technology Emphasizing the comprehension of physical concepts and their engineering implications over the more formal developments this is an essential introduction to the stimulating and fast growing field of aperiodic optics and complex photonics

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