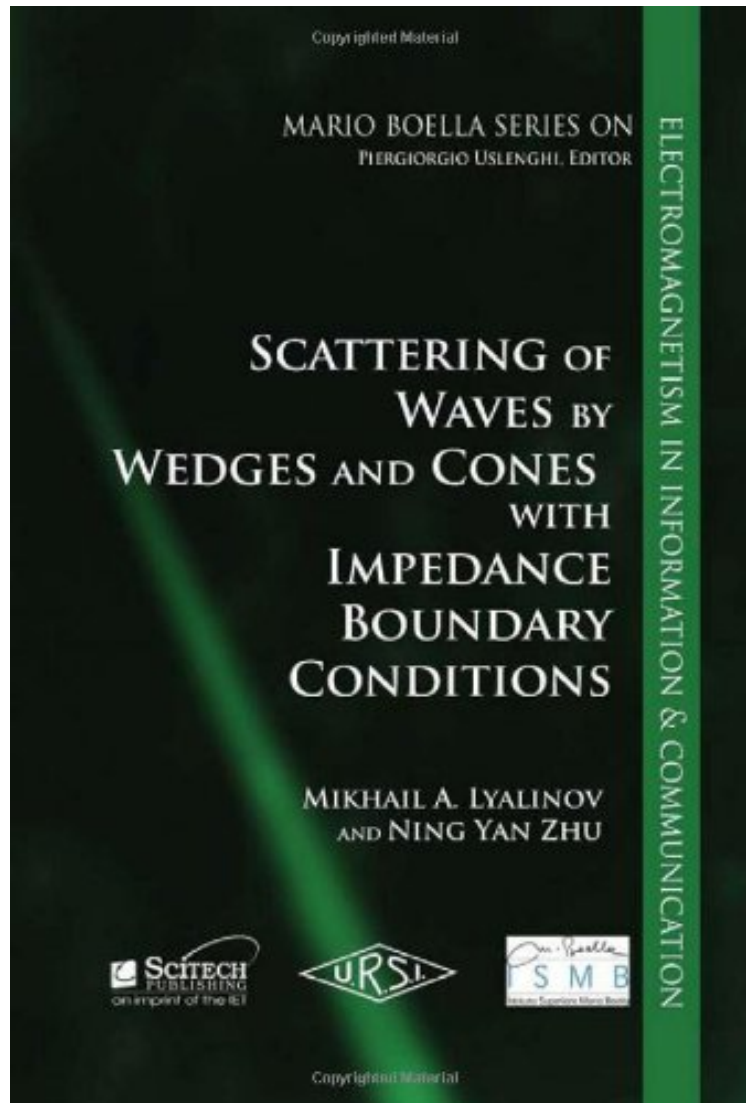


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Scattering of Wedges and Cones with Impedance Boundary Conditions (Mario Boella Series on Electromagnetism in Information and Communication)

Mikhail A. Lyalinov, Ning Yan Zhu
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This book discusses the development of new approaches which lead to exact (but not explicit) solutions of key canonical problems like diffraction by an impedance wedge or cone. Includes calculations of the diffraction or excitation coefficients, including their uniform versions, for the diffracted waves from the edge of the wedge or from the vertex of the cone. Study of the farfield behaviour in diffraction by impedance wedges or cones, reflected waves, space waves from the singular points of the boundary (from edges or tips) and surface waves. Applicability of the reported solution procedures and formulae to existing software packages designed for solving realworld highfrequency problems encountered in antenna, wave propagation and radar cross section.

About the Author Mikhail A. Lyalinov is a Professor in the Department of Mathematics and Mathematical Physics at Saint Petersburg University, Russia. He has published more than 50 research papers on different mathematical aspects of diffraction theory and is co-author of two monographs. He is a principal organizer of the annual international Days on Diffraction seminars. Ning Yan Zhu is a Privatdozent at the Institute of Radio Frequency Technology, University of Stuttgart, Germany. His research includes rigorous numerical techniques and their applications to antennas and radio wave propagation in complex environments. He has published 25 journal articles and co-authored one monograph in these fields. He is also an editorial advisor of the "Alpha Science Series on Wave Phenomena" (Oxford, UK).