

Advanced Topics in Science and Technology in China

Weiyan Pan · Kai Li

Propagation of SLF/ELF Electromagnetic Waves

This book deals with the SLF/ELF wave propagation, an important branch of electromagnetic theory. The SLF/ELF wave propagation theory is well applied in earthquake electromagnetic radiation, submarine communication, thunderstorm detection, and geophysical prospecting and diagnostics. The propagation of SLF/ELF electromagnetic waves is introduced in various media like the earth-ionospheric waveguide, ionospheric plasma, sea water, earth, and the boundary between two different media or the stratified media. Applications in the earthquake electromagnetic radiation and the submarine communications are also addressed. This book is intended for scientists and engineers in the fields of radio propagation and EM theory and applications.

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Electrical Engineering

ISBN 978-3-662-52238-7



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ZHEJIANG UNIVERSITY PRESS
浙江大学出版社



Springer