Initial Boundary Value Problems in Mathematical Physics (Dover Books on Mathematics)

By Rolf Leis

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An introduction to both classical scattering theory and to the time-dependent theory of linear equations in mathematical physics, this text is suitable for advanced undergraduates and graduate students of physics and applied mathematics. Topics include proof of the existence of wave operators, some special equations of mathematical physics — including Maxwell equations, the linear equations of elasticity and thermoelasticity, and the plate equation — exterior boundary value problems, radiation conditions, and limiting absorption principles.

The self-contained treatment provides background for a complete understanding of all concepts, and an extensive reference list offers suggestions for further reading. Based on the author's lectures at the University of Bonn in 1983–84, this volume will prove useful to researchers as well as students.

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