

Contents

1. Introduction	1
2. Propagation of Acoustic Waves.....	3
§1. The Unperturbed Acoustic Propagator.....	3
§2. The Limiting Absorption Principle for the Unperturbed Acoustic Propagator	13
§3. The Perturbed Acoustic Propagator	18
§4. The Essential Spectrum of the Perturbed Acoustic Propagator.....	24
§5. Absence of Positive Eigenvalues.....	33
§6. The Limiting Absorption Principle for the Perturbed Acoustic Propagator.....	46
§7. The Generalized Fourier Maps and Acoustic Scattering Theory	68
3. Propagation of Electromagnetic Waves	86
§1. The Unperturbed Electromagnetic Propagator	86
§2. The Limiting Absorption Principle for the Unperturbed Electromagnetic Propagator	104
§3. The Limiting Absorption Principle for the Perturbed Electromagnetic Propagator	117
§4. The Generalized Fourier Maps and Electromagnetic Scattering Theory	138
Appendix 1	146
Appendix 2	165
Notes	179
References	182
Index	186