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Plane-Wave Theory of Time-Domain Fields: Near-Field Scanning Applications

Thorkild B. Hansen, Arthur D. Yaghjian

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"This invaluable book provides a comprehensive framework for the formulation and solution ofnumerous problems involving the radiation, reception, propagation, and scattering of electromagnetic and acoustic waves. Filled with original derivations and theorems, it includes the first rigorous development of plane-wave expansions for time-domain electromagnetic and acoustic fields.

For the past 35 years, near-field measurement techniques have been confined to the frequency domain. Now, with the publication of this book, probe-corrected near-field measurement techniques have been extended to ultra-wide-band, short-pulse transmitting and receiving antennas and transducers.

By combining unencumbered straightforward derivations with in-depth expositions of prerequisite material, the authors have created an invaluable resource for research scientists and engineers in electromagnetics and acoustics, and a definitive reference on plane-wave expansions and near-field measurements.

Featured topics include:
* An introduction to the basic electromagnetic and acoustic field equations
* A rigorous development of time-domain and frequency-domain plane-wave representations
* The formulation of time-domain, frequency-domain, and static planar near-field measurement techniques with and without probe-correction
* Sampling theorems and computation schemes for time-domain and frequency-domain fields
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