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

Thorkild B. Hansen, Arthur D. Yaghjian

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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.

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* 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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