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Theory of Near-Field Phased Arrays for Electromagnetic Susceptibility Testing (Classic Reprint) (Hardback)

By David A Hall

Forgotten Books, 2017. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Theory of Near-Field Phased Arrays for Electromagnetic Susceptibility Testing The feasibility of using a near-field array for electromagnetic susceptibility testing is studied. The basic objective is to control the element weightings such that a plane wave is generated within the test volume. The basic theory is developed for arbitrary array geometries, and numerical results are obtained for finite planar arrays. A general near-field array synthesis technique is developed, and the technique minimizes the mean square error in the test volume while constraining the array excitations. The constraint prevents large excitations and is useful in minimizing the fields outside the test volume. The basic idea looks promising, but some practical considerations, such as bandwidth and angular scanning limitations, require further theoretical and experimental investigation. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such...



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