

Introduction To Design Optimum Solutions

Some Optimum Antenna Arrays Designer's Best One-story Home Plans The Shock and Vibration Digest Azure Integration Guide for Business Report NASA Technical Memorandum Pharmacogenomics Steam-boilers, Their Theory and Design The Best Match; Or The Soul's Espousal to Christ: Opened and Improved NASA Contractor Report Safety Valve Cyclopaedia of Biblical, Theological, and Ecclesiastical Literature The Encyclopædia Britannica Half-hours with the Best Authors The Parliamentary Debates The Critic Library of the World's Best Literature The Ironmonger Electronic Engineering History for Ready Reference, from the Best Historians, Biographers, and Specialists Charles Joseph Drane (Jr) Designs Direct Publishing Joshua Garverick United States. National Advisory Committee for Aeronautics Federico Innocenti Harry de Berkeley Parsons Edward Pearse United States. National Aeronautics and Space Administration John McClintock Charles Knight Great Britain. Parliament Charles Dudley Warner Josephus Nelson Larned

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this is a theoretical study of certain optimum linear arrays of nonuniformly spaced isotropic antennas for this purpose the beamwidth of any given radiation pattern is defined in a new integral sense with low values denoting highly directional radiation patterns with low sidelobes the present work is almost wholly concerned with the choice of 1 the excitation currents and 2 the locations of individual antennas to minimize this particular beamwidth it is shown that the first of these two choices reduces to a straightforward eigenvalue problem involving symmetric matrices the search for the optimum element locations however requires also a knowledge of the derivatives of this best beamwidth with respect to changes in the element spacings together with some hunting procedure to arrive at configurations for which all those are zero in the present computations the latter consisted of a step by step procedure wherein the locally optimum beamwidth and its derivatives for any given array were first computed via the matrices and successive neighboring configurations were then defined automatically with the elements shifted by amounts of prescribed total magnitude calculated to reduce the beamwidth as much as possible at every step numerical results of these computations are here presented for arrays ranging from four to forty symmetrically placed elements on the whole they seem to indicate that the best configurations in cases where the overall aperture is not constrained are ones in which the elements are spaced very nearly uniformly with separations of the order of 0.8 to 0.9 times the wavelength author

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