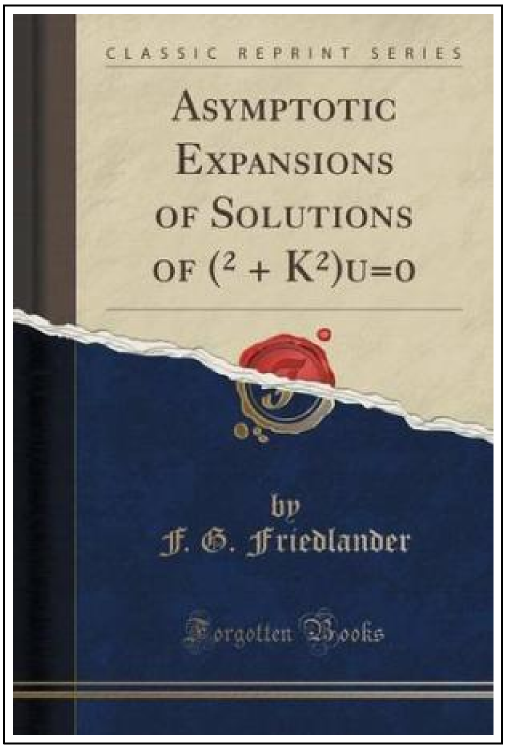
Asymptotic Expansions of Solutions of (+ K)U=0 (Classic Reprint)



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Reviews

The publication is easy in read safer to comprehend. It is actually rally intriguing throgh studying time. I am easily will get a delight of looking at a created publication.

(Claud Feest)

ASYMPTOTIC EXPANSIONS OF SOLUTIONS OF (+ K)U=0 (CLASSIC REPRINT)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Asymptotic Expansions of Solutions of (+ K)u=0 In many of the diffraction problems which arise in electromagnetic theory, acoustics and other fields it is necessary to determine the behavior as k -> (k = 2n/, where is the wavelength) of solutions of the reduced wave equation (1) (v + k)u = 0. This behavior is usually determined by obtaining exact solutions and expanding them asymptotically in k. If it were possible to obtain the asymptotic expansion of a solution directly from (l) and the other conditions of the problem it might be possible to obtain such expansions in problems for which the exact solutions are not known. It might also be easier to proceed in this way even in problems for which the exact solutions are known. A direct method for constructing the first term in the expansion of a periodic electromagnetic field was devised by R. K. Luneburg, and this method was extended by M. Kline to yield further terms in the expansion and also extended to other equations. This expansion is related to the rays of geometrical optics; the first term in the expansion is called the geometric optics field. Derivations of some of the same results have been given by F. G. Friedlander, J. Riblet (unpublished), H. Bremmer and E. T. Copson. This method is explained and applied to a number of diffraction problems by J. B. Keller and I. Kay; another application was given by C. Schensted. The above method does not yield all asymptotic expansions of electromagnetic fields. Other kinds of expansions which contain exponential decay factors and fractional powers of k, neither of which appears in...

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