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Reviews

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(Prof. Corbin Hilll)

THE COMPLEX WKB METHOD FOR NONLINEAR EQUATIONS: I: LINEAR THEORY (PAPERBACK)



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Springer Basel, Switzerland, 2013. Paperback. Book Condition: New. 235 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.This book deals with asymptotic solutions of linear and nonlinear equations which decay as $h \rightarrow 0$ outside a neighborhood of certain points, curves and surfaces. Such solutions are almost everywhere well approximated by the functions $c_p(x) \exp, x \in \mathbb{R}^3$, where $S(x)$ is complex, and $\text{Im} S(x) \sim o$. When the phase $S(x)$ is real ($\text{Im} S(x) = 0$), the method for obtaining asymptotics of this type is known in quantum mechanics as the WKB-method. We preserve this terminology in the case $\text{Im} S(x) \sim 0$ and develop the method for a wide class of problems in mathematical physics. Asymptotics of this type were constructed recently for many linear problems of mathematical physics; certain specific formulas were obtained by different methods (V. M. Babich [5-7], V. P. Lazutkin [76], A. A. Sokolov, I. M. Ternov [113], J. Schwinger [107, 108], E. J. Heller [53], G. A. Hagedorn [50, 51], V. N. Bayer, V. M. Katkov [21], N. A. Chernikov [35] and others). However, a general (Hamiltonian) formalism for obtaining asymptotics of this type is clearly required; this state of affairs is expressed both in recent mathematical and physical literature. For example, the editors of the collected volume [106] write in its preface: One can hope that in the near future a computational procedure for fields with complex phase, similar to the usual one for fields with real phase, will be developed. Softcover reprint of the original 1st ed. 1994.



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