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Introduction to Nonlinear Differential and Integral Equations

By Harold T Davis

Martino Fine Books, United States, 2014. Paperback. Book Condition: New. 234 x 157 mm. Language: English . Brand New Book ***** Print on Demand *****.2014 Reprint of 1960 Edition. Full facsimile of the original edition. Not reproduced with Optical Recognition Software. Within recent years interest in nonlinear equations has grown enormously. They are extremely important as basic equations in many areas of mathematical physics, and they have received renewed attention because of progress in their solution by machines. This volume undertakes a definition of the field, indicating advances that have been made up through 1960. The author's position is that while the advent of machines has resulted in much new knowledge, one should not disregard analytical methods, since the solution of nonlinear equations possesses singularities which only the analytical method (as based upon the work of Poincare, Liapounoff, Painleve and Goursat) can discover. After a general survey of the problem presented by nonlinear equations, the author discusses the differential equation of the first order, following this by chapters on the Riccati equation (as a bridge between linear and nonlinear equations) and existence theorems, with special reference to Cauchy's method. Second order equations are introduced via Volterra's problem...



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