

This text examines fundamental and general existence theorems, along with the Picard iterants, and applies them to properties of solutions and linear differential equations. The authors assume a basic knowledge of real function theory, and for certain specialized results, of elementary functions of a complex variable.

Existence Theorems for Ordinary Differential Equations ...

Subsection 1.6.1 The Existence and Uniqueness Theorem. The following theorem tells us that solutions to first-order differential equations exist and are unique under certain reasonable conditions. Theorem 1.6.1. Existence and Uniqueness Theorem. Let $(x' = f(t, x))$ have the initial condition $(x(t_0) = x_0)$

Existence and Uniqueness of Solutions

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[6] Deimling, Klaus, Ordinary differential equations in Banach spaces (Lecture Notes in Mathematics, 596. Springer-Verlag, Berlin, Heidelberg, New York, 1977). [7] Deimling, Klaus, "On existence and uniqueness for Cauchy's problem in infinite dimensional Banach spaces", Proc. Colloq. Math. Soc. Janos Bolyai Differential Equations 15 (1975), 131 – 370.

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