An Introduction to Differential Equations: Deterministic Modeling, Methods and Analysis (Volume 1)

Anil G Ladde, G S Ladde

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The book is proactive in preparing for the modeling of dynamic processes in various disciplines. It introduces a "break-down-the problem" type of approach in a way that creates "fun" and "excitement". The book presents many learning tools like "step-by-step procedures (critical thinking)", the concept of "math" being a language, applied examples from diverse fields, frequent recaps, flowcharts and exercises. Uniquely, this book introduces an innovative and unified method of solving nonlinear scalar differential equations. This is called the "Energy/Lyapunov Function Method". This is accomplished by adequately covering the standard methods with creativity beyond the entry level differential equations course.

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