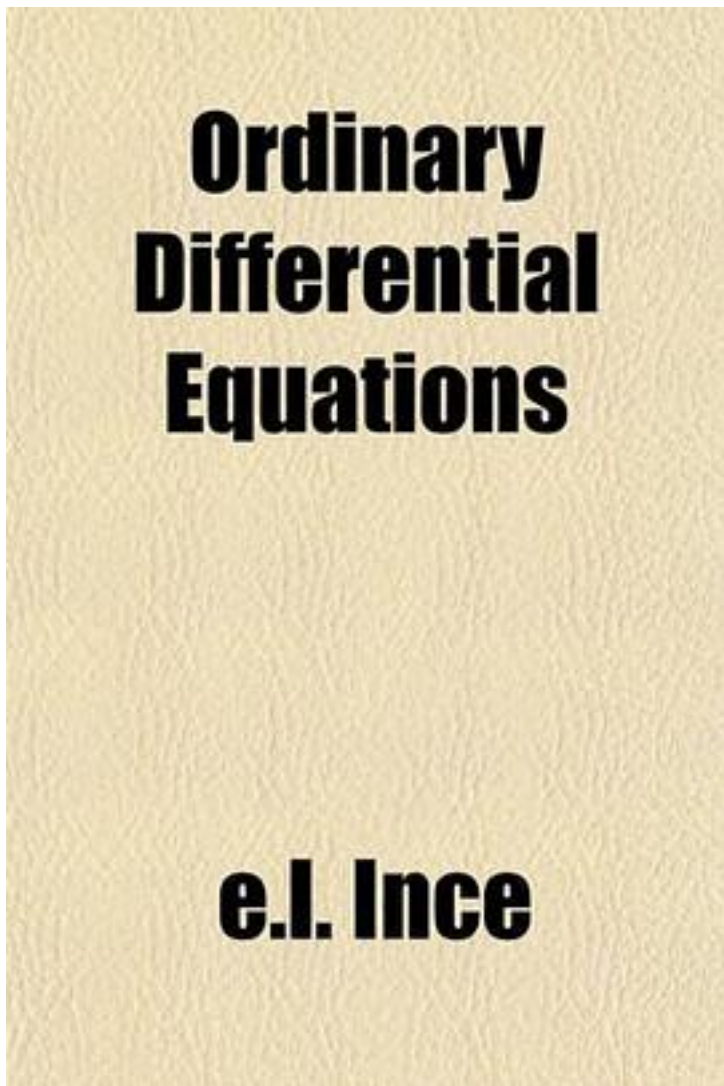# Ordinary Differential Equations

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"Ordinary Differential Equations: Introduction and Qualitative Theory, Third Edition" provides a detailed account, based on the work of Lefschetz, of the Bendixson theory of solutions of two-dimensional autonomous systems in a neighborhood of a singular point. Updated and revised, this third edition presents a unified treatment of the perturbation problem for periodic solutions, covering nonautonomous equations and bifurcation problems. The text includes a self-contained account of topological degree and its use as well as a detailed description of how the averaging method can be used to examine the problem of periodic solutions. It also contains additional exercises, applications, and solutions.

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