Half-Linear Differential Equations

NORTH-HOLLAND
MATHEMATICS STUDIES 202

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Half-Linear Differential Equations

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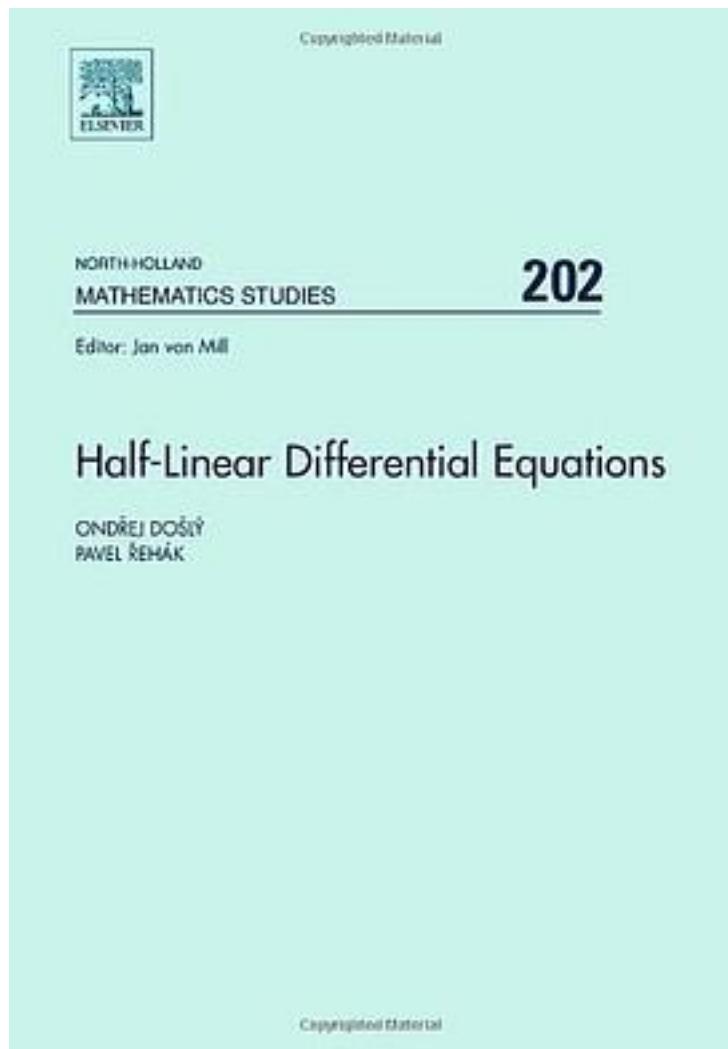PAVEL ŘEHÁK

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The book presents a systematic and compact treatment of the qualitative theory of half-linear differential equations. It contains the most updated and comprehensive material and represents the first attempt to present the results of the rapidly developing theory of half-linear differential equations in a unified form. The main topics covered by the book are oscillation and asymptotic theory and the theory of boundary value problems associated with half-linear equations, but the book also contains a treatment of related topics like PDE's with p-Laplacian, half-linear difference equations and various more general nonlinear differential equations. This is the first complete treatment of the qualitative theory of half-linear differential equations. This book includes comparison of linear and half-linear theory. It features a systematic approach to half-linear oscillation and asymptotic theory. It contains a comprehensive bibliography and index. It is useful as a reference book in the topic.

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