

Solving Ordinary Differential Equations II

**Stiff and
Differential-Algebraic
Problems**

**E. Hairer
G. Wanner**

Second Revised Edition



Springer

Solving Ordinary Differential Equations Ii Stiff And Differential Algebraic Problems

Ernst Hairer, Gerhard Wanner



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Surveys in Differential-Algebraic Equations II Achim Ilchmann, Timo Reis, 2014-12-04 The present volume comprises survey articles on various fields of Differential Algebraic Equations DAEs which have widespread applications in controlled dynamical systems especially in mechanical and electrical engineering and a strong relation to ordinary differential equations The individual chapters provide reviews presentations of the current state of research and new concepts in Observers for DAEs DAEs in chemical processes Optimal control of DAEs DAEs from a functional analytic viewpoint Algebraic methods for DAEs The results are presented in an accessible style making this book suitable not only for active researchers but also for graduate students with a good knowledge of the basic principles of DAEs for self study

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