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	Nota di contenuto	Frontmatter -- Preface -- Contents -- 1. The basic properties of Richardson extrapolation -- 2. Richardson extrapolation for explicit Runge-Kutta methods -- 3. Linear multistep and predictor-corrector methods -- 4. Richardson extrapolation for some implicit methods --

5.2 Richardson extrapolation for splitting techniques -- 6. Richardson extrapolation for advection problems -- 7. Richardson extrapolation for some other problems -- 8. General conclusions -- References -- List of abbreviations -- Author index -- Subject index

Sommario/riassunto

Scientists and engineers are mainly using Richardson extrapolation as a computational tool for increasing the accuracy of various numerical algorithms for the treatment of systems of ordinary and partial differential equations and for improving the computational efficiency of the solution process by the automatic variation of the time-stepsizes. A third issue, the stability of the computations, is very often the most important one and, therefore, it is the major topic studied in all chapters of this book. Clear explanations and many examples make this text an easy-to-follow handbook for applied mathematicians, physicists and engineers working with scientific models based on differential equations.

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General conclusions
