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One of the major achievements in computational fluid dynamics has been the development of numerical methods for simulating compressible flows, combining higher-order accuracy in smooth regions with a sharp, oscillation-free representation of embedded shocks methods and now known as "high-resolution schemes". Together with introductions from the editors written from the modern vantage point this volume collects in one place many of the most significant papers in the development of high-resolution schemes as occurred at ICASE.

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Editorial Review

From the Back Cover

One of the major achievements in computational fluid dynamics has been the development of numerical methods for simulating compressible flows. These methods combine higher-order accuracy in smooth regions, with sharp, oscillation-free representation of embedded shocks, and are now known as "high-resolution schemes". This volume collects in one place many of the most significant papers in the development of high-resolution schemes as occurred at ICASE, together with introductions from the editors, written from the modern vantage point. Chapter I covers the early development of approximate Riemann solvers in the context of monotonic schemes. Chapter II continues with papers dealing with second-order total-variation-diminishing (TVD) schemes. Chapter III presents papers which show the historical development of total-variation-bounded (TVB) schemes at ICASE. Finally, Chapter IV collects papers on inherently multidimensional schemes, which preserve the attractive features of their one-dimensional predecessors.

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