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Nota di contenuto	Contents; 1 Fundamental concepts and equations; 2 Theoretical results for the Euler equations; 3 Some mathematical tools for compressible flows; 4 Weak solutions for steady Navier-Stokes equations of compressible barotropic flow; 5 Strong solutions for steady Navier-Stokes equations of compressible barotropic flow and small data; 6 Some mathematical tools for nonsteady equations; 7 Weak solutions for nonsteady Navier-Stokes equations of compressible barotropic flow; 8 Global behavior of weak solutions; 9 Strong solutions of nonsteady compressible Navier-Stokes equations; References; Index
Sommario/riassunto	This book provides a rapid introduction to the mathematical theory of compressible flow, giving a comprehensive account of the field and all important results up to the present day. The book is written in a clear, instructive and self-contained manner and will be accessible to a wide audience. - ; This book provides a comprehensive introduction to the mathematical theory of compressible flow, describing both inviscid and viscous compressible flow, which are governed by the Euler and the Navier-Stokes equations respectively. The method of presentation allows readers with different backgrounds to