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| Collana                 | Advances in Mathematical Fluid Mechanics, , 2297-0320  |
| Disciplina              | 620.106  |
| Soggetti                | Mathematical physics<br>Partial differential equations<br>Functional analysis<br>Fluids<br>Fluid mechanics<br>Mathematical Applications in the Physical Sciences<br>Partial Differential Equations<br>Functional Analysis<br>Fluid- and Aerodynamics<br>Engineering Fluid Dynamics   |
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| Nota di contenuto       | Primitive Equations for Oceanic and Atmospheric Dynamics -- Viscous Compressible Flows under Pressure -- Global Well-posedness for Incompressible-Incompressible Two Phase Problem -- The Role of Pressure in the Theory of Weak Solutions to the Navier-Stokes Equations -- Pressure Dependent Material Coefficients -- FE Pressure Stabilizations for Incompressible Flow Problems -- Finite-Volume Methods for Navier-Stokes Equations. |
| Sommario/riassunto      | This contributed volume is based on talks given at the August 2016 summer school "Fluids Under Pressure," held in Prague as part of the "Prague-Sum" series. Written by experts in their respective fields, chapters explore the complex role that pressure plays in physics, mathematical modeling, and fluid flow analysis. Specific topics covered include: Oceanic and atmospheric dynamics Incompressible flows                       |

Viscous compressible flows Well-posedness of the Navier-Stokes equations Weak solutions to the Navier-Stokes equations Fluids Under Pressure will be a valuable resource for graduate students and researchers studying fluid flow dynamics.

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