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   Nota di bibliografia Includes bibliographical references and index.

   Nota di contenuto   Generalized Riemann problems: from the scalar equation to
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                        Some observations on a multiscale finite element method for problems
                        with variables separated coefficients / S. Jiang and Y-Q. Huang -- A
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Sommario/riassunto	This book presents state-of-the-art lectures delivered by international academic and industrial experts in the field of computational science and its education, covering a wide spectrum from theory to practice. Topics include new developments in finite element method (FEM), finite volume method and Spline theory, such as Moving Mesh Methods, Galerkin and Discontinuous Galerkin Schemes, Shape Gradient Methods, Mixed FEMs, Superconvergence techniques and Fourier spectral approximations with applications in multidimensional fluid dynamics; Maxwell equations in discrepancy media; and phase-field e