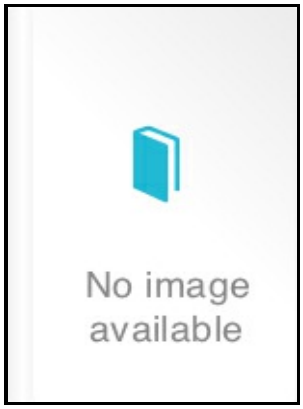
Numerical methods for conservation laws

Birkhäuser Verlag - Numerical Methods for Conservation Laws : Randall J. Leveque : 9783764327231



Description: -
-
Socialization -- United States
Civics -- Study and teaching
Patriotism -- United States
Child rearing -- United States
Shock waves
Conservation laws (Mathematics)
Differential equations, Hyperbolic -- Numerical solutionsNumerical methods for conservation laws
-
Lectures in mathematics ETH ZürichNumerical methods for conservation laws
Notes: Includes bibliographical references (p. 208-214).
This edition was published in 1992

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Tags: #Numerical #Methods #for #Conservation #Laws #(豆瓣)

Numerical Methods for Conservation Laws (豆瓣)

Conservation laws are the mathematical expression of the principles of conservation and provide effective and accurate predictive models of our physical world. .

Numerical Methods for Conservation Laws With Discontinuous Coefficients

. Teaching methods The class will be given as a lecture class with in-class computational experiments to support the analysis.

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These will be examined as part of the final oral examination and will count for 50% of the overall grade. Moreover, the breadth and depth of coverage was limited by the length of these courses, and some parts are rather sketchy. The emphasis is on tools and techniques that are indispensable in developing good numerical methods for discontinuous solutions.

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Resources Bibliography The class will use the text J.

Numerical Methods for Conservation Laws (豆瓣)

Throughout the course there will be an emphasis on mastering mathematical as well as computational aspects of the different methods. These notes developed from a course on the numerical solution of conservation laws first taught at the University of Washington in the fall of 1988 and then at ETH during the following spring. Although intense research activity during the last decades has led to substantial advances in the development of powerful computational methods for conservation laws, their solution remains a challenge and many questions.

Numerical methods for conservation laws

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