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Lectures on Nonlinear Hyperbolic Differential Equations

By Lars Hörmander

Springer Jul 1997, 1997. Taschenbuch. Book Condition: Neu. 25x17x cm. This item is printed on demand - Print on Demand Neuware - In this introductory textbook, a revised and extended version of well-known lectures by L. Hörmander from 1986, four chapters are devoted to weak solutions of systems of conservation laws. Apart from that the book only studies classical solutions. Two chapters concern the existence of global solutions or estimates of the lifespan for solutions of nonlinear perturbations of the wave or Klein-Gordon equation with small initial data. Four chapters are devoted to microanalysis of the singularities of the solutions. This part assumes some familiarity with pseudodifferential operators which are standard in the theory of linear differential operators, but the extension to the more exotic classes of operators needed in the nonlinear theory is presented in complete detail. 290 pp. Englisch.



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