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Nonlinear Hyperbolic Equations, Spectral Theory, and Wavelet Transformations

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Book Condition: New. Publisher/Verlag: Springer, Basel | A Volume of Advances in Partial Differential Equations | &This volume focuses on recent developments in non-linear and hyperbolic equations. It will be a most valuable resource for researchers in applied mathematics, the theory of wavelets, and in mathematical and theoretical physics. Nine up-to-date contributions have been written on invitation by experts in the respective fields. The book is the third volume of the subseries "Advances in Partial Differential Equations". | Nonlinear PDE. Singularities, Propagation, Applications.- From Wave to Klein-Gordon Type Decay Rates.- Local Solutions to Quasi-linear Weakly Hyperbolic Differential Equations.- An Approach to a Version of the $S(M, g)$ -pseudo-differential Calculus on Manifolds.- Spectral Invariance and Submultiplicativity for the Algebras of $S(M, g)$ -pseudo-differential Operators on Manifolds.- Domain Perturbations and Capacity in General Hilbert Spaces and Applications to Spectral Theory.- An Interpolation Family between Gabor and Wavelet Transformations. Application to Differential Calculus and Construction of Anisotropic Banach Spaces.- Formes de torsion analytique et fibrations singulières.- Regularisation of Secondary Characteristic Classes and Unusual Index Formulas for Operator-valued Symbols. | Format: Paperback | Language/Sprache: english | 236x156x26 mm | 440 pp.



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