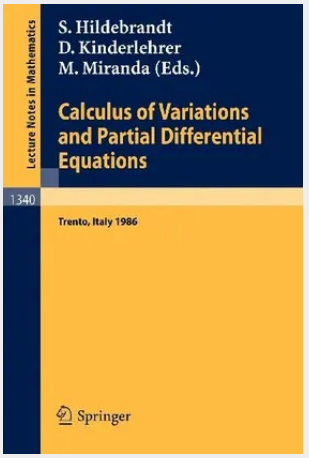
Hildebrandt / Kinderlehrer / Miranda

# Calculus of Variations and Partial Differential Equations

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Global solvability of second order evolution equations in banach scales.- On the incompressible limit of the compressible Navier-Stokes equations.- On a class of hyperbolic operators with double characteristics.- Relaxation problems in control theory.- The inclination of an H-graph.- On the mathematical theory of vortex sheets.- New estimates of the fundamental solution and Wiener's criterion for parabolic equations with variable coefficients.- Green function and invariant density for an integro-differential operator.- Some remarks on the regularity of minimizers.- Quadratic functionals with splitting coefficients.- Minimal surfaces of finite index in manifolds of positive scalar curvature.- Remarks about the mathematical theory of liquid crystals.- On quasi-minimal surfaces.- A survey of recent regularity results for second order queer differential equations.- On the diffusion coefficient of a semilinear Neumann problem.- Some isoperimetric inequalities for the level curves of capacity and Green's functions on convex plane domains.- Nonhomogeneous quasilinear hyperbolic systems: Initial and boundary value problem.- Existence results for non convex problems of the calculus of variations.- Wiener criteria and variational convergences.- Fully nonlinear second order elliptic equations.- Positive solutions of a prescribed mean curvature problem.- On the convergence at infinity of solutions with finite dirichlet integral to the exterior dirichlet problem for the steady plane Navier-Stokes system of equations.- The elliptic Sinh Gordon equation and the construction of toroidal soap bubbles.

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