

Convexity Methods in Variational Calculus



This advanced text for senior undergraduate and postgraduate applied mathematicians is an introduction to the application of functional differentiation and convexity to variational calculus. Offering coverage of convexity, functional derivatives, and the calculus of variations, it supplies the necessary background in elementary applied functional analysis, then provides in-depth coverage of the calculus of operators and functionals defined on product spaces, saddle structure, and dual extremum problems. Numerous worked-out problems and applications are provided, including over 150 examples.

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