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Duality Principles In Nonconvex Systems

Motivated by practical problems in engineering and physics, drawing on a wide range of applied mathematical disciplines, this book is the first to provide, within a unified framework, a self-contained comprehensive mathematical theory of duality for general non-convex, non-smooth systems, with emphasis on methods and applications in engineering mechanics.

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Duality Principles in Nonconvex Systems : Theory, Methods ...

Offers a comprehensive mathematical theory of duality for general non-convex, non-smooth systems, with emphasis on methods and applications in engineering mechanics. This book covers topics such as the classical (minimax) mono-duality of convex static equilibria, the bi-duality in dynamical systems, and the tri-duality in non-convex problems.

Duality principles in nonconvex systems : theory, methods ...

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Duality Pnciples in Nonconvex Systems - GBV

This paper presents a reasonably complete duality theory and a nonlinear dual transformation method for solving the fully nonlinear, non-convex parametric variational problem $\inf\{W(\Lambda u - \mu) - F(u)\}$, and associated nonlinear boundary value problems, where Λ is a nonlinear operator, W is either convex or concave functional of $p = \Lambda u$, and μ is a given parameter. Detailed mathematical proofs are provided for the complementary extremum principles proposed recently in finite deformation theory.

Duality, triality and complementary extremum principles in ...

Because of the nonconvexity, the nice simple symmetry in the governing equations is broken and the beautiful one-to-one global duality relation no longer exists. The solutions in these systems are usually not unique. But, by introducing a suitable nonlinear operator A , a generalized framework may still be established for many systems.

Tri-Duality in Nonconvex Systems | SpringerLink

Nonconvex duality properties for multiobjective optimization problems are obtained by using a characterization of Pareto optima by means of generalized Tchebycheff norms. Bounds for the corresponding duality gap are given, and approximate Pareto multipliers are constructed.

Nonconvex Duality in Multiobjective Optimization ...

This article develops duality principles applicable to non-convex models in the calculus of variations. The results here developed are applied to Ginzburg-Landau type equations. For the first and second duality principles, through an optimality criterion developed for the dual formulations, we qualitatively classify the critical points of the primal and dual functionals in question.

On General Duality Principles for Non-Convex Variational ...

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dual action form (without complementarity gap) is an open problem in nonconvex systems. Based on the augmented Lagrangian theory and penalty function methods, a so-called nonlinear Lagrange theory has been developed recently for solving nonconvex constrained optimization problems, where the zero duality gap property is equivalent to

PERFECT DUALITY THEORY AND COMPLETE SOLUTIONS TO A CLASS ...

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Duality Principles in Nonconvex Systems: Theory, Methods and Motivated by practical problems in engineering and physics, drawing on a wide range of applied mathematical disciplines, this book is the first to provide, within a unified framework, a self-contained comprehensive mathematical theory of duality for general non-convex, non-smooth systems, ...

The Duality Principle by Rebecca Grace Allen, Paperback ...

(2003). Perfect duality theory and complete solutions to a class of global optimization problems. Optimization: Vol. 52, No. 4-5, pp. 467-493.

Perfect duality theory and complete solutions to a class ...

The well-known Helinger-Reissner principle is actually a special Lagrangian saddle min-max duality theory in convex analysis, which lays a foundation for mixed/hybrid finite element methods with successful applications in structural limit analysis [32, 33]. However, the one-to-one duality is broken in nonconvex systems.

Canonical Duality-Triality Theory: Bridge Between ...

Book Review: David Yang Gao, Duality Principles in Nonconvex Systems. Theory, Methods and Applications.

Book Review: David Yang Gao, Duality Principles in ...

The Toland-Fenchel-Lagrange duality of DC programs for composite convex functions. Numerical Algebra, Control & Optimization, 2014, 4 (1) : 9-23. doi: 10.3934/naco.2014.4.9 [16] Fang Chen, Ning Gao, Yao-Lin Jiang. On product-type generalized block AOR method for augmented linear systems.

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