

Evolutionary Topology Optimization of Continuum Structures

METHODS AND APPLICATIONS



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Evolutionary Topology Optimization Of Continuum Structures Methods And Applications

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Variational Views in Mechanics Paolo Maria Mariano, 2022-02-08 This volume provides a timely survey of interactions between the calculus of variations and theoretical and applied mechanics. Chapters have been significantly expanded since preliminary versions appeared in a special issue of the Journal of Optimization Theory and Applications 184:1-2020 on Calculus of Variations in Mechanics and Related Fields. The variety of topics covered offers researchers an overview of problems in mechanics that can be analyzed with variational techniques making this a valuable reference for researchers in the field. It also presents ideas for possible future areas of research showing how the mastery of these foundational mathematical techniques can be used for many exciting applications. Specific topics covered include Topology optimization Identification of material properties Optimal control Plastic flows Gradient polyconvexity Obstacle problems Quasi monotonicity Variational Views in Mechanics will appeal to researchers in mathematics solid states physics and mechanical civil and materials engineering.

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