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INTERNATIONAL CENTRE FOR MECHANICAL SCIENCES

MATHEMATICAL PROGRAMMING METHODS IN STRUCTURAL PLASTICITY

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Mathematical Programming Methods in Structural Plasticity

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Civil engineering buildings are usually made of fabrics that reply elastically at basic degrees of loading. such a lot such materials, however, may convey a marked and ductile inelasticity if the constitution have been overloaded unintentionally or by means of a few inconceivable yet obviously occurring phenomeon. Indeed, the very presence of Mathematical Programming Methods in Structural Plasticity such ductility constitutes a huge safeguard provision for large-scale structures the place human lifestyles is at risk. within the entire assessment of security in structural design, it's consequently unrealistic to not think about the results of ductility. This booklet units out to teach that the bringing jointly of the speculation and strategies of mathematical programming with the mathematical concept of plasticity furnishes a version which has a unifying theoretical nature and is solely consultant of saw structural behaviour. The contents of the e-book supply a overview of the proper points of mathematical programming and plasticity theory, including a close presentation of the main fascinating and in all probability necessary purposes in either framed and continuum structures: final energy and elastoplastic deformability; shakedown and useful higher bounds on deformation measures; evolutive dynamic response; huge displacements and instability; stochastic and fuzzy programming for representing uncertainty in final energy calculations. along with delivering a prepared fund of computational algorithms, mathematical programming invests functions in mechanics with a polished mathematical formalism, wealthy in primary theorems, which regularly provides additional perception Mathematical Programming Methods in Structural Plasticity into identified effects and infrequently bring about new ones. as well as its seen functional utility, the academic worth of the cloth completely befits a college discipline.

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