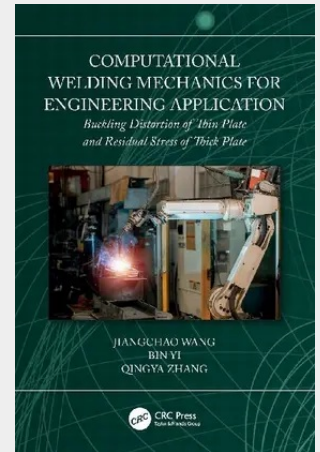


Computational Welding Mechanics for Engineering Application

Buckling Distortion of Thin Plate and Residual Stress of Thick Plate

Computational Welding Mechanics for Engineering Application: Buckling Distortion of Thin Plate and Residual Stress of Thick Plate deals with two special issues in the field of computational welding mechanics: buckling distortion of thin plate and residual stress of thick plate. Through experiment, theory, and computational analysis, the authors systematically introduce the latest progress and achievements of computational welding mechanics, such as weld buckling in lightweight fabrication and residual stress in HTSS thick plate welding. In addition, they also explore its application to address real-world engineering problems in advanced manufacturing, such as precision manufacturing and mechanical performance evaluation. The book will be of interest to scholars and engineers of computational welding mechanics who wish to represent the welding mechanics response, predict the distribution and magnitude of mechanical variables, or optimize the welding technique to improve the manufacturing quality.

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