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Thermo-Mechanical Model of Solidification Processes Implementation in Abaqus and Application to Continuous Casting of Steel VDM Verlag. Paperback. Condition: New. 176 pages. Dimensions: 8.5in. x 5.9in. x 0.6in.Many manufacturing and fabrication processes such as foundry shape casting, continuous casting and welding have common solidification phenomena, such as thermal stress development. One of the most important and complex among them is continuous casting which produces 90 of steel today. A new computationally efficient algorithm has been implemented into the commercial package Abaqus using a user-defined subroutine (UMAT) to solve for thermal stresses, strains, and displacements in...

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