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Steel sheets are conventionally manufactured by continuous casting, hot rolling, cold rolling and annealing. However, recent progress in producing steel sheets in pilot-scale twin roll strip casters has stimulated efforts to convert such devices to full commercial production. Overview of constitutive laws, kinematics, homogenization and multiscale methods in crystal plasticity finite-element modeling: Theory, experiments, applications OBJECTIVES AND TOPICS. The 4th International Symposium on Phase-Field Modelling in Materials Science (PF 19), to be held at the Ruhr-Universität Bochum / Germany, is intended to provide an excellent forum for the growing phase-field community. Dual-phase steels (DP steels) consist of ferrite and a dispersed hard martensitic second phase in the form of islands. Usually they are low-carbon low-alloy materials with 10-40 vol.% hard martensite or martensite-austenite particles embedded in a ductile ferrite matrix., From Microstructure Investigations To Multiscale Modeling.

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