1. Record Nr. UNINA9910557519703321

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Titolo	Advances in Microalloyed Steels
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (236 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	In response to the demanding requirements of different sectors, such as construction, transportation, energy, manufacturing, and mining, new generations of microalloyed steels are being developed and brought to market. The addition of microalloying elements, such as niobium, vanadium, titanium, boron, and/or molybdenum, has become a key tool in the steel industry to reach economically-viable grades with increasingly higher mechanical strength, toughness, good formability, and weldable products. The challenges that microalloying steel production faces can be solved with a deeper understanding of the effects that these microalloying additions and combinations of them have during the different steps of the steelmaking process.