



# Rolling of Advanced High Strength Steels: Theory, Simulation and Practice

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Advanced high strength steels (AHSSs) for auto-making are primarily produced by rolling, plus heat treatment technologies if necessary. However, due to the metallurgical complexity of AHSSs, it is impossible to roll all of the AHSS grades in a rolling mill with the same rolling technology. Each of AHSSs has unique applications in vehicles, and specified rolling technologies are required to produce high quality AHSS products where they might be the best employed to meet performance demands of the automotive parts. Such background has prompted the publication of this scholarly book in the area of rolling of AHSSs with a purpose of providing readers with a valuable technical document that can be used in the research and development of AHSSs for automotive and other manufacturing industries.

With contributors from USA, Germany, Poland, Italy, Spain, Austria, Australia, China, India and Iran, the book highlights the latest advances in rolling technologies of AHSSs. It focuses on the theory, simulation and practice of the rolling of AHSSs: The book introduces the history, types and advances of AHSSs and their processes; proposes new theory that is applicable to the rolling of AHSSs, presents mathematical and numerical modelling of AHSSs in rolling; covers thermomechanical processing technologies of AHSSs; provides case studies on the rolling practice of the most popular AHSSs and includes other rolling-related technologies of AHSSs.

The book will be useful for both theoretical and applied research aimed at AHSSs rolling technologies, and will be a scientific and valuable literature for the metallurgists, engineers, materials scientists, academics and graduate students who are studying and working with AHSSs and their rolling technologies worldwide.

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