Special Issue

High-Strength Steels/Lightweight Steels for Deep Drawing Applications

Message from the Guest Editor

While the increase in strength of conventional high-strength steel is automatically accompanied by a decrease in elongation properties, advanced high-strength steels allow to improve the strength level without a loss of the elongation or deterioration of the sheet deep drawing potential. These steels offer to make use of steel sheets with lower thickness, resulting in important weight reduction. Another opportunity for important weight saving is decreasing steel density. The addition of alloying elements, such as Al, can decrease steel density up to 15–20%. This Special Issue aims to address the latest research devoted to lightweight steels for deep drawing applications, especially their design, microstructure, mechanical properties, and processing. Research articles focusing on the development of environmentally-friendly and lightweight cost-effective components using lightweight steels for constructions are encouraged as well.

Guest Editor

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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