



Materials

an Open Access Journal by MDPI

CiteScore: 7.0

Indexed in PubMed

Impact Factor: 3.7

Special Issue Reprint

Achievements in Foundry Materials and Technologies

Edited by: Marcin Stawarz, Krzysztof Janerka and Jan Jezierski

Foundry is one of the basic branches of production. In every industry of the modern economy, foundry products are used: in parts of machines and devices, load-bearing elements, precision elements, etc. Throughout its history, the foundry industry has been constantly developing, introducing new molding materials, casting alloys, processes, foundry tools, quality control systems, energy-saving systems, environmental protections, etc. Many innovations have not been adequately presented in the professional literature or have been presented only locally at conferences and meetings. Therefore, the aim of this Reprint was to collect new achievements and progress in the field in one place to create a “platform” for discussion on new directions in the development of the foundry among authors, reviewers, and readers. This Reprint covers all foundry technologies and alloys (cast steel, cast iron, and non-ferrous alloys). Due to the topics covered in this Special Issue, articles on modern solutions in the technology of casting production are included. The topics of the presented articles include optimization of foundry production, methods of metal preparation, crystallization, electromagnetic mixing of foundry alloys, quality control, printing 3D processes, reverse engineering, etc.

<https://www.mdpi.com/books/reprint/13237>

