Special Issue

Metallurgical Process: Optimization and Control

Message from the Guest Editors

Pyrometallurgy processes, especially in the secondary refining processes, play an important role in improving the cleanliness and mechanical properties of final products by removing non-metallic inclusions and impurity elements. However, metallurgical processes have various complex physical and chemical reactions at high temperatures; thus, several variables may affect the metallurgy process, including (but not limited to) the properties of slag and refractory materials for the ferrous metallurgy, the remelting rate and fill ratio for electro slag remelting (ESR), etc. Therefore, the optimization of metallurgical processes using experimental and theoretical simulation methods is indispensable to making the metallurgy process smooth and efficient. Except for iron-based alloys, the development of the refining technology of the other alloy systems at high temperatures in the form of a liquid state is also accepted.

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