Special Issue

Advanced Manufacturing of Metals

Message from the Guest Editor

Advanced manufacturing of metals refers to the creation of metal structures by cutting, bending, and assembling processes. It is an additive manufacturing process involving the creation of machines, parts, and structures from various raw materials. Industrial production employs a multitude of value-added processes, including welding, cutting, forming, and machining. Welding is the main focus of steel fabrication, whereby formed and machined parts are assembled and tack-welded in place then rechecked for accuracy; cutting and burning are a variety of the tools used to cut raw material; forming converts flat sheet metal into 3D parts by applying force without adding or removing material; and machining is a specialized trade of removing material from a block of metal to make a desired shape. Fab shops generally have some machining capability and use metal lathes, mills, drills, and other portable machining tools. Most solid components are machined, for example, gears, bolts, screws, and nuts. Examples of standard metal fabrication materials are plate metal, formed and expanded metal, tube stock, welding wire/welding rod, and casting.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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