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Special Issue Reprint

From Materials to Applications

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This Reprint seeks to explore the new advancements and breakthroughs in high-performance steel structures, including materials and applications considering all potential fields of study, such as performance evaluations of steel structures, optimized steel systems, reactions at high temperatures, innovative lateral resisting systems for steel, high-strength steels, steel rebars, methodologies for fatigue analysis, steel-based additive manufacturing, corrosion, application possibilities of new sustainable materials and methods, steel dampers, steel applications, metallurgy, and advanced material performance in comparison with steel. These topics are examined from various perspectives, including mechanical, microstructural, material modeling, steel design, and performance analyses. This Reprint summarizes several major studies that involve steel as a material in applications and from distinctive technical or scientific viewpoints.

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