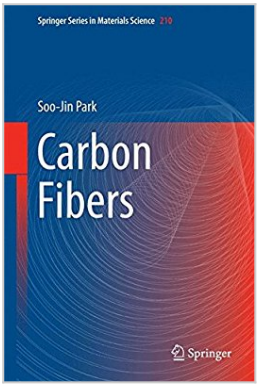

Carbon Fibers (Springer Series in Materials Science)

By Soo-Jin Park

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This book contains eight chapters that discuss the manufacturing methods, surface treatment, composite interfaces, microstructure-property relationships with underlying fundamental physical and mechanical principles, and applications of carbon fibers and their composites.
Recently, carbon-based materials have received much attention for their many potential applications. The carbon fibers are very strong, stiff, and lightweight, enabling the carbon materials to deliver improved performance in several applications such as aerospace, sports, automotive, wind energy, oil and gas, infrastructure, defense, and semiconductors. However, the use of carbon fibers in cost-sensitive, high-volume industrial applications is limited because of their relatively high costs. However, its production is expected to increase because of its widespread use in high-volume industrial applications; therefore, the methods used for manufacturing carbon fibers and carbon-fiber-reinforced composites and their structures and characteristics need to be investigated.

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Editorial Review

From the Back Cover
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About the Author

Soo-Jin PARK is a professor in the department of chemistry at Inha University and an Editor-in-Chief of Carbon Letters. He received his Ph.D. in 1992 carried out under the supervision of Prof. Jean-Baptiste DONNET from Centre National de la Recherche Scientifique (CNRS), France. His research interests include carbon materials for energy conversion and storage, curing catalysts and polymer-carbon composites, green adsorption device with porous carbons, and so on.

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