



Materials Science and Engineering of Carbon: Fundamentals, Second Edition

By Michio Inagaki Ph.D., Feiyu Kang Ph.D.

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Materials Science and Engineering of Carbon: Fundamentals provides a comprehensive introduction to carbon, the fourth most abundant element in the universe. The contents are organized into two main parts. Following a brief introduction on the history of carbon materials, Part 1 focuses on the fundamental science on the preparation and characterization of various carbon materials, and Part 2 concentrates on their engineering and applications, including hot areas like energy storage and environmental remediation. The book also includes up-to-date advanced information on such newer carbon-based materials as carbon nanotubes and nanofibers, fullerenes and graphenes.

- Through review on fundamental science, engineering and applications of carbon materials
- Overview on a wide variety of carbon materials (diamond, graphite, fullerene, carbon nanotubes, graphene, etc.) based on structure and nanotexture
- Description on the preparation and applications of various carbon materials, in the relation to their basic structure and properties

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Editorial Review

About the Author

Michio Inagaki is a famous carbon material scientist, who obtained his PhD degree from Nagoya University in 1963. He has worked on carbon materials for more than 50 years. In 2011, he won the Peter A. Thrower Award for Exceptional Contribution to the International Carbon Community.

Feiyu Kang received his PhD from The Hong Kong University of Science and Technology in 1997. He is honorary editorial advisory board of international journal CARBON, Joint Chairmen of international symposiums: CARBON2002 (Beijing), Carbon2011 (Shanghai) and 15th International Symposium on Intercalation Compounds (ISIC15), Coordinators of international research projects: Professor M. Inagaki (NSFC-JSPS) and Professor I. Mochida (JST-MOST).

Prof. Kang has investigated graphite and carbon materials since 1988. His research interest includes nano-carbon materials, graphite producing process, porous carbon and nuclear graphite. Prof. Kang had published more than 200 scientific papers and 3 books.

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