



polymers



Special Issue Reprint

Damage and Failure Analysis of Polymer-Based Composites

www.mdpi.com/books/reprint/10544

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ISBN 978-3-7258-3258-3 (Hardback)
ISBN 978-3-7258-3257-6 (PDF)



A thorough understanding of the damage and failure mechanisms of composites is fundamental to improving the performance of composite structures and achieving optimized designs. In this Special Issue, we present the latest research findings on damage and failure analysis of polymer-based composites, covering a wide range of important topics from the damage mechanisms of composite materials and structures to the enhancement of durability in high-performance materials, utilizing various advanced analytical methods and testing technologies. These research studies are derived from practical engineering applications or reflect engineering demands. Moreover, the results indicate that through advanced analysis, design, and monitoring technologies, the performance of composites is expected to be significantly improved in many aspects, demonstrating their broad potential in applications. These studies provide technical basis or practical guidance for better design and application of related composite materials or structures.



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