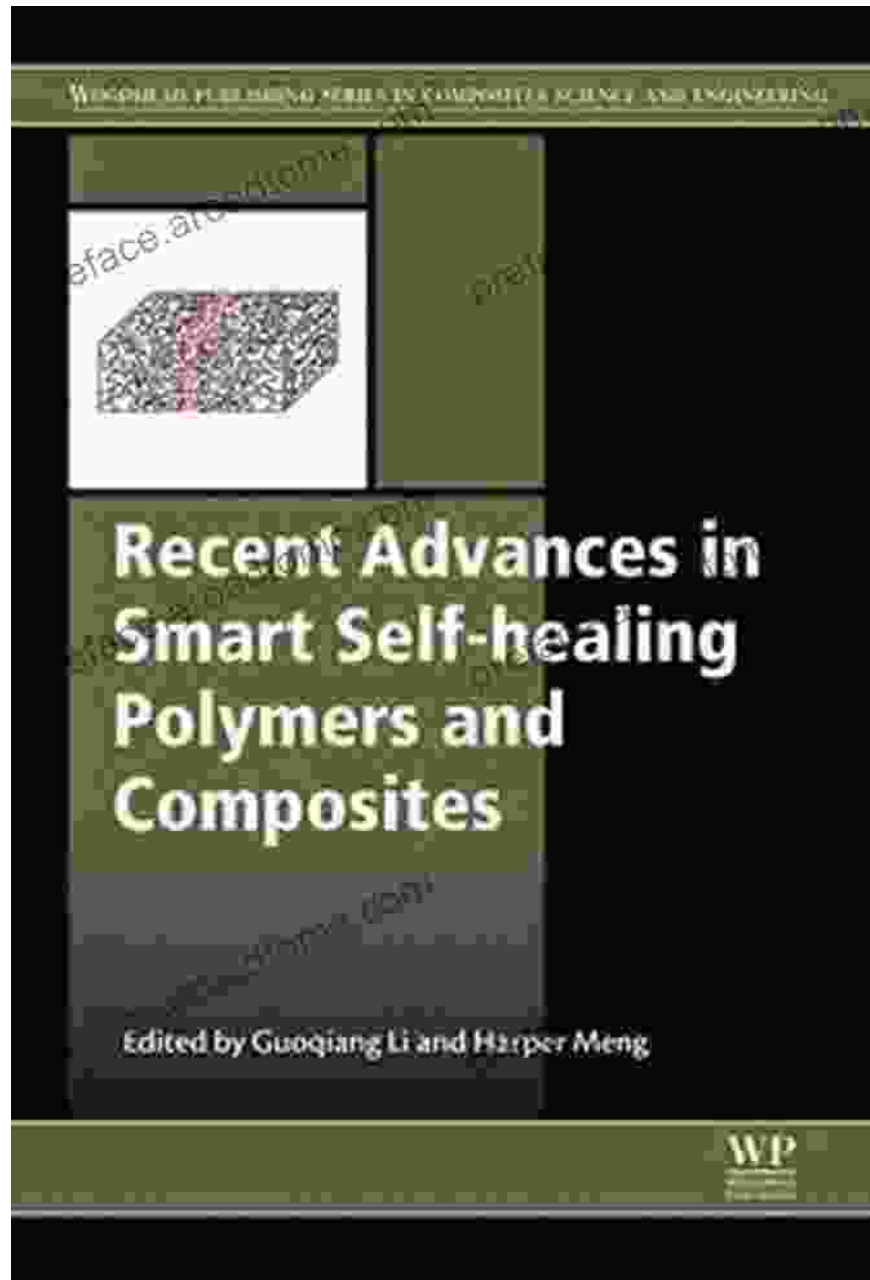


# Recent Advances in Smart Self-Healing Polymers and Composites



Recent Advances in Smart Self-healing Polymers and Composites (Woodhead Publishing Series in Composites Science and Engineering) by Dominique Atkinson

★★★★☆ 4.7 out of 5



Language	: English
File size	: 24616 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 406 pages



## Harnessing the Power of Self-Healing for Advanced Materials

In the ever-evolving landscape of materials science, the advent of self-healing polymers and composites has sparked a revolution. These extraordinary materials possess the remarkable ability to autonomously repair damage, extending their lifespan and unlocking unprecedented possibilities across a vast spectrum of industries.

In the comprehensive text "Recent Advances in Smart Self-Healing Polymers and Composites," renowned experts delve into the latest breakthroughs and applications of these innovative materials. From fundamental principles to cutting-edge technologies, this book provides an unparalleled resource for researchers, engineers, and industry professionals seeking to harness the power of self-healing for their own advancements.

### Key Features That Illuminate the Cutting Edge

- **In-Depth Exploration of Self-Healing Mechanisms:** Understand the fundamental principles behind the various mechanisms that enable self-healing, including intrinsic, extrinsic, and autonomic.

- **Comprehensive Overview of Polymer- and Composite-Based Self-Healing Systems:** Discover the diverse range of self-healing polymers and composites, from reversible covalent bonds to supramolecular interactions.
- **Real-World Applications Across Industries:** Gain insights into the practical applications of self-healing materials in fields such as transportation, aerospace, biomedical devices, and electronics.
- **Future Directions and Challenges:** Explore the exciting frontiers of self-healing research, including emerging technologies and the challenges that lie ahead.

## **Propel Your Research and Innovation with Cutting-Edge Knowledge**

Whether you're a seasoned researcher pushing the boundaries of materials science or an engineer seeking to incorporate self-healing into your designs, "Recent Advances in Smart Self-Healing Polymers and Composites" is an indispensable resource. Its comprehensive coverage, authoritative insights, and practical examples will empower you to:

- Develop advanced self-healing materials with tailored properties for specific applications.
- Design and engineer durable and reliable structures and devices that minimize downtime and reduce maintenance costs.
- Stay abreast of the latest advancements and emerging trends in the field of self-healing materials.

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