



# Self-Healing at the Nanoscale: Mechanisms and Key Concepts of Natural and Artificial Systems

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## Self-Healing at the Nanoscale: Mechanisms and Key Concepts of Natural and Artificial Systems

A complete panorama of self-healing strategies, **Self-Healing at the Nanoscale: Mechanisms and Key Concepts of Natural and Artificial Systems** focuses on the development of new nanoscale self-healing systems, from general concepts to physical chemical mechanisms. With a special emphasis on key concepts, strategies, and mechanisms at the atomic, molecular, and nanometric scales, this book is made up of three parts:

- *Natural Self-Healing Systems* covers paradigmatic self-repair systems developed by nature in living organisms
- *Artificial Self-Healing Systems* describes various materials whose structures have been engineered at the micro- or nanoscale to obtain self-repair ability
- *Frontiers of Self-Healing Systems* includes contributions on systems studied in recent years that have shown potential for developing or inspiring new self-healing nanomaterials

The development of self-healing systems, especially concerning materials and the nanoscale, is a nascent yet appealing topic for scientists in fields ranging from engineering to biology. **Self-Healing at the Nanoscale** provides a broad view of the concepts, mechanisms, and types of self-healing systems at the nanoscale, forming a guide to the field and inspiring the development of self-healing systems for the future.

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