



## **Advances in Shape Memory Polymers (Woodhead Publishing Series in Textiles)**

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# Advances in Shape Memory Polymers (Woodhead Publishing Series in Textiles)

## Advances in Shape Memory Polymers (Woodhead Publishing Series in Textiles)

Shape memory materials are immensely useful because of their capability to recover their original shapes upon exposure to an external stimulus such as heat, moisture, light or a magnetic field. This book reviews key recent research in shape memory polymers, their properties and applications. Topics include the relationship between morphological structures and shape memory properties; high performance T<sub>g</sub> and T<sub>m</sub> type shape memory polymers; structures of shape memory polymers with supramolecular switches; and the thermally-active and moisture-active shape memory effect of supermolecular shape memory polymers.

Advances in shape memory polymers is an essential reference for polymer and textile material students, scientists, designers, engineers and manufacturers. It is also an invaluable guide for professionals in the biomedical, electronics and engineering industries.

- Reviews key recent research in shape-memory polymers, their properties and applications
- Opening chapters address the relationship between morphological structures and shape memory properties and high performance T<sub>g</sub> and T<sub>m</sub> type shape memory polymers
- Chapters cover thermally-active and moisture-active shape memory effect of supermolecular shape memory polymers, among other topics

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