1. Record Nr. UNINA990009650370403321

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| Autore | Bredenberg, H. |
| Titolo | Application of stress-wave theory on piles : proceedings of the international seminar on the application of stress-wave theory on piles Stockholm 4-5 June 1980 / H. Bredenberg |
| Pubbl/distr/stampa | Rotterdam : A. A. Balkema, 1981 |
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| Autore | Yang Yang |
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| Descrizione fisica | 1 online resource (84 pages) |
| Collana | SpringerBriefs in Materials, , 2192-1105 |
| Disciplina | 668.374 |
| Soggetti | Polymers<br>Composite materials<br>Polymerization<br>Nanoelectromechanical systems<br>Environmental engineering<br>Biotechnology<br>Bioremediation<br>Composites<br>Polymer Synthesis<br>Nanoscale Devices<br>Environmental Engineering/Biotechnology |

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| Formato | Materiale a stampa |
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| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Introduction -- Classification and fabrication of epoxy vitrimers -- Epoxy vitrimer composites -- New properties of epoxy vitrimers brought by dynamic covalent bonds -- Potential applications of epoxy vitrimers -- Summary and outlook. |
| Sommario/riassunto | This book summarizes recent advances in epoxy vitrimer research, giving thorough discussion of the classification and fabrication of epoxy vitrimers and their composites. Epoxy vitrimers are reversible covalently crosslinked networks with dynamic covalent bonds, combining the excellent mechanical properties of thermosets with the re-processability of thermoplastics. The authors explore and summarize many current and potential applications of epoxy vitrimer composites across the domains of aerospace materials, electronic devices, machine manufacturing, and consumer products and technology. This book serves as an accessible introduction and a helpful guide to graduate students, researchers, and industry professionals in materials science and engineering with an interest in advanced polymer composites. |