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Autore	Tracy Sarah W. <1963->
Titolo	Alcoholism in America [[electronic resource]] : from reconstruction to prohibition / / Sarah W. Tracy
Pubbl/distr/stampa	Baltimore, Md. ; ; London, : Johns Hopkins University Press, 2007
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Descrizione fisica	1 online resource (384 p.)
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Soggetti	Alcoholism - United States - History Alcoholism - Treatment - United States - History Alcoholism - Hospitals - United States - History
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Introduction -- Disease concept(s) of inebriety -- Cultural framing of inebriety -- Institutional solutions for inebriety -- Public inebriate hospitals and farm colonies -- The "Foxborough experiment" -- Building a boozatorium -- On the vice and disease of inebriety -- Conclusion -- Notes -- Index.

2. Record Nr.	UNINA9910826707803321
Autore	Zhang Ming Qiu
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Altri autori (Persone)	RongMin Zhi
Disciplina	547/.7
Soggetti	Polymeric composites Self-healing materials
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Note generali	Description based upon print version of record.
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Nota di contenuto	SELF-HEALING POLYMERS AND POLYMER COMPOSITES; CONTENTS; PREFACE; 1: BASICS OF SELF-HEALING: STATE OF THE ART; 1.1 BACKGROUND; 1.1.1 Adhesive Bonding for Healing Thermosetting Materials; 1.1.2 Fusion Bonding for Healing Thermoplastic Materials; 1.1.3 Bioinspired Self-Healing; 1.2 INTRINSIC SELF-HEALING; 1.2.1 Self-Healing Based on Physical Interactions; 1.2.2 Self-Healing Based on Chemical Interactions; 1.2.3 Self-Healing Based on Supramolecular Interactions; 1.3 EXTRINSIC SELF-HEALING; 1.3.1 Self-Healing in Terms of Healant Loaded Pipelines 1.3.2 Self-Healing in Terms of Healant Loaded Microcapsules1.4 INSIGHTS FOR FUTURE WORK; REFERENCES; 2: THEORETICAL CONSIDERATION AND MODELING; 2.1 MOLECULAR MECHANISMS; 2.1.1 Self-Healing Below Glass Transition Temperature; 2.1.2 Self-Healing Above Glass Transition Temperature; 2.2 HEALING MODELING; 2.2.1

Percolation Modeling; 2.2.2 Continuum and Molecular-Level Modeling of Fatigue Crack Retardation; 2.2.3 Continuum Damage and Healing Mechanics; 2.2.4 Discrete Element Modeling and Numerical Study; 2.3 DESIGN OF SELF-HEALING COMPOSITES; 2.3.1 Entropy Driven Self-Assembly of Nanoparticles 2.3.2 Optimization of Microvascular Networks 2.4 CONCLUDING REMARKS; REFERENCES; 3: EXTRINSIC SELF-HEALING VIA ADDITION POLYMERIZATION; 3.1 DESIGN AND SELECTION OF HEALING SYSTEM; 3.2 MICROENCAPSULATION OF MERCAPTAN AND EPOXY BY IN SITU POLYMERIZATION; 3.2.1 Microencapsulation of Mercaptan; 3.2.2 Microencapsulation of Epoxy; 3.3 CHARACTERIZATION OF SELF-HEALING FUNCTIONALITY; 3.3.1 Self-Healing Epoxy Materials with Embedded Dual Encapsulated Healant: Healing of Crack Due to Monotonic Fracture; 3.3.2 Factors Related to Performance Improvement 3.3.3 Self-Healing Epoxy Materials with Embedded Dual Encapsulated Healant: Healing of Fatigue Crack 3.3.4 Self-Healing Epoxy/Glass Fabric Composites with Embedded Dual Encapsulated Healant: Healing of Impact Damage; 3.4 CONCLUDING REMARKS; REFERENCES; 4: EXTRINSIC SELF-HEALING VIA CATIONIC POLYMERIZATION; 4.1 MICROENCAPSULATION OF EPOXY BY UV IRRADIATION-INDUCED INTERFACIAL COPOLYMERIZATION; 4.2 ENCAPSULATION OF BORON-CONTAINING CURING AGENT; 4.2.1 Loading Boron-Containing Curing Agent onto Porous Media; 4.2.2 Microencapsulation of Boron-Containing Curing Agent via Hollow Capsules Approach 4.3 CHARACTERIZATION OF SELF-HEALING FUNCTIONALITY 4.3.1 Self-Healing Epoxy Materials with Embedded Epoxy-Loaded Microcapsules and (C₂H₅)₂O·BF₃-Loaded Sisal; 4.3.2 Self-Healing Epoxy Materials with Embedded Dual Encapsulated Healant; 4.4 CONCLUDING REMARKS; REFERENCES; 5: EXTRINSIC SELF-HEALING VIA ANIONIC POLYMERIZATION; 5.1 PREPARATION OF EPOXY-LOADED MICROCAPSULES AND LATENT HARDENER; 5.1.1 Microencapsulation of Epoxy by in situ Condensation; 5.1.2 Preparation of Imidazole Latent Hardener; 5.2 SELF-HEALING EPOXY MATERIALS WITH EMBEDDED EPOXY-LOADED MICROCAPSULES AND LATENT HARDENER 5.3 SELF-HEALING EPOXY/WOVEN GLASS FABRIC COMPOSITES WITH EMBEDDED EPOXY-LOADED MICROCAPSULES AND LATENT HARDENER: HEALING OF INTERLAMINAR FAILURE

Sommario/riassunto

"This book covers the fundamentals, theory, design, fabrication, characterization, and application of self-healing polymers and polymer composites. Innovative routes that correlate materials chemistry to the self-healing functionality are summarized for future industrial use. Throughout the book, the authors emphasize integration of existing techniques and / or novel synthetic approaches for target-oriented materials design and fabrication. With this book, experienced readers will gain a comprehensive view of the emerging field, while new researchers will understand the framework for creating new materials or new applications"--

"This book covers the fundamentals, theory, design, fabrication, characterization, and application of self-healing polymers and polymer composites"--