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Titolo	Concise encyclopedia of high performance silicones // edited by Atul Tiwari, Mark D. Soucek ; cover design by Atul Tiwari and Russell Richardson ; Zulkifli Ahmad [and fifty six others], contributors
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Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; List of Contributors; Part 1: Synthesis Methodologies for Silicones; 1 Room Temperature Vulcanized Silicone Rubber Coatings: Application in High Voltage Substations; 1.1 Introduction; 1.2 Pollution of High Voltage Insulators; 1.3 Silicone Coatings for High Voltage Ceramic Insulators; 1.4 RTV SIR Coatings Formulation; 1.4.1 The Base Polymer; 1.4.2 Polymerization and Crosslinking Processes; 1.4.3 Formulation Additives; 1.5 Hydrophobicity in RTV SIR; 1.5.1 Reorientation Mechanism; 1.5.2 Migration of LMW Molecules 1.5.3 Silicone Fluid - Material Thickness 1.5.4 Material Formulation; 1.5.5 Influence of the Crosslinking Degree; 1.5.6 Influence of the Contamination Nature; 1.5.7 Amount of LMW; 1.5.8 Influence of the Electrical Surface Activity; 1.6 Electrical Performance of RTV SIR Coatings; 1.6.1 Application of RTV SIR Coatings in High-Voltage Substations; 1.7 Conclusions; References; 2 Silicone Copolymers: Enzymatic Synthesis and Properties; 2.1 Introduction; 2.2 Polysiloxanes; 2.3 Silicone Aliphatic Polyesters; 2.4 Silicone Aliphatic Polyesteramides; 2.5 Silicone Fluorinated Aliphatic Polyesteramides

2.6 Silicone Aromatic Polyesters and Polyamides
2.7 Silicone Polycaprolactone; 2.8 Silicone Polyethers; 2.9 Silicone Sugar Conjugates; 2.10 Stereo-Selective Esterification of Organosiloxanes; 2.11 Conclusion and Outlook; Acknowledgments; References; 3 Phosphorus Containing Siliconized Epoxy Resins; 3.1 Introduction; 3.1.1 Applications of Epoxy Resins; 3.1.2 Need for Modified Epoxy and Modifiers; 3.1.3 Multi-Faceted Properties of Phosphorus-Containing Siliconized Epoxy Resins; 3.1.4 Matrix Materials for the Fabrication of Bulk and Nanocomposites
3.2 Preparation of Siliconized Epoxy-Bismaleimide Intercrosslinked Matrices
3.2.1 Dynamic Mechanical Thermal Analysis (DMTA); 3.2.2 Thermal Gravimetric Analysis (TGA); 3.2.3 Limiting Oxygen Index Test; 3.2.4 Moisture Absorption Behavior; 3.2.5 SEM Investigation; 3.2.6 Research Findings and Recommendation; 3.3 Phosphorus-Containing Siliconized Epoxy Resin as Thermal and Flame Retardant Coatings; 3.3.1 Preparation of Siliconized Epoxy Prepolymer; 3.3.2 Glass Transition Temperature and Thermal Stability of Phosphorus-Containing Siliconized Epoxy Resin; 3.3.3 Limiting Oxygen Index (LOI) 3.3.4 Recommendation
3.4 High Functionality Resins for the Fabrication of Nanocomposites; 3.4.1 Mechanical Properties; 3.4.2 Thermo-Mechanical Behavior; 3.4.3 Thermal Properties; 3.4.4 Flame Retardancy Studies; 3.4.5 Effect of Curing Agent towards Flame Retardancy; 3.4.6 Nano Reinforcement (POSS) Effect towards Flame Retardancy; 3.4.7 Highlights; 3.5 Anticorrosive and Antifouling Coating Performance of Siloxane- and Phosphorus-Modified Epoxy Composites; 3.5.1 Results of Potentiodynamic Polarization Study; 3.5.2 Results of Electrochemical Impedance Study (EIS); 3.5.3 Salt Spray Test Results 3.5.4 Results from Antifouling Studies

Sommario/riassunto

The encyclopedia will be an invaluable source of information for researchers and students from diverse backgrounds including physics, chemistry, materials science and surface engineering, biotechnology, pharmacy, medical science, and biomedical engineering.

2. Record Nr.	UNINA9910817198303321
Autore	Rosen Clark A.
Titolo	Bailey's head and neck surgery-- otolaryngology review // [edited by] Jonas T. Johnson, Clark A. Rosen
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Sommario/riassunto	Master the core topics found in the large Bailey's Head and Neck Surgerywitha brand new, concise self-assessment book titled Bailey's Head and Neck Surgery - Otolaryngology Review. This comprehensive, quick-review, resource parallels the chapters inthe new edition of the big Bailey's title. Featuring 1,100 multiple choice questions and a comprehensive online quiz bank for review on the go, this invaluable resource is ideal for both residents and for practitioners.

