Record Nr.	UNINA9910829836103321
Titolo	Structural Adhesives : Properties, Characterization and Applications / / edited by K. L. Mittal, S. K. Panigrahi
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley-Scrivener, , 2023
ISBN	1-394-17560-4 1-394-17559-0
Descrizione fisica	1 online resource
Collana	Adhesion and adhesives
Disciplina	668.3
Soggetti	Adhesives adhesive
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Front Matter PREPARATION, PROPERTIES AND CHARACTERIZATION. Structural Epoxy Adhesives / Chunfu Chen Biological Reinforcement of Epoxies as Structural Adhesives / Anna Rudawska, Jakub Szabelski, Izabela Miturska-Baranska, Elzbieta Doluk Marble Dust Reinforced Epoxy Structural Adhesive Composites / Amar Patnaik, Pankaj Agarwal, Ankush Sharma, Deepika Shekhawat, Tapan Kumar Patnaik Characterization of Various Structural Adhesive Materials / Srujan Sapkal, Pooja Maske, S K Panigrahi, Himanshu S Panda The Effects of Shear and Peel Stress Distributions on the Behavior of Structural Adhesives in Tubular Composite Joints / Mohammad Shishesaz Inelastic Response of Structural Aerospace Adhesives / Yi Chen, Lloyd Smith APPLICATIONS. Structural Reactive Acrylic Adhesives in Composite Connections / M D Banea, HFM Queiroz Naval Applications of Structural Adhesives / Bikash Chandra Chakraborty Index Also of Interest.
Sommario/riassunto	Structural Adhesives Uniquely provides up-to-date and comprehensive information on the topic in an easily-accessible form. A structural adhesive can be described as a high-strength adhesive material that is isotropic in nature and bonds two or more parts together in a load- bearing structure. A structural adhesive material must be capable of transmitting the stress/load without loss of structural integrity within

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design limits. There are many types of established structural adhesives, including epoxy, urethane, acrylic, silicone, etc. Structural Adhesives comprises nine chapters and is divided into two parts: Part 1, Preparation, Properties, and Characterization; Part 2, Applications. The topics covered include: structural epoxy adhesives; biological reinforcement of epoxies as structural adhesives; marble dust reinforced epoxy structural adhesive composites; characterization of various structural adhesive materials; effects of shear and peel stress distributions on the behavior of structural adhesives; the inelastic response of structural aerospace adhesives; structural reactive acrylic adhesives: their preparation, characterization, properties, and applications; application of structural adhesives in composite connections; and naval applications of structural adhesives. Audience This book should be of much use and interest to adhesionists, materials scientists, adhesive technologists, polymer scientists, and those working in the construction, railway, automotive, aviation, bridge, and shipbuilding industries.