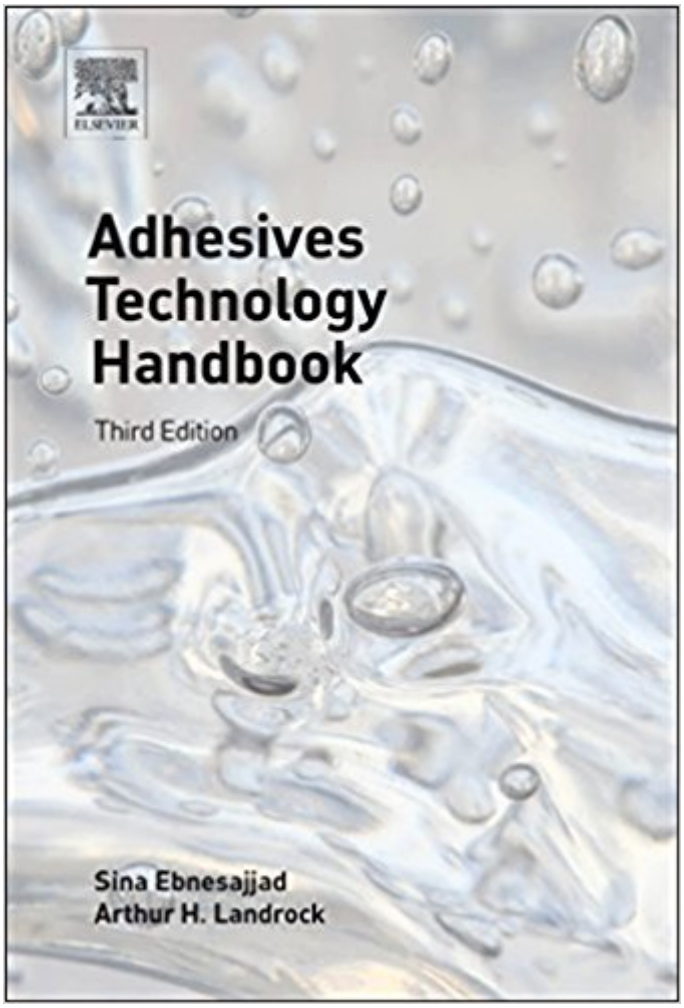
Adhesives Technology Handbook, Third Edition (Plastics Design Library)



Synopsis

Covering a wide range of industrial applications across sectors including medical applications, automotive/aerospace, packaging, electronics, and consumer goods, this book provides a complete guide to the selection of adhesives, methods of use, industrial applications, and the fundamentals of adhesion. Dr Ebnesajjad examines the selection of adhesives and adhesion methods and challenges for all major groups of substrate including plastics (thermosets and thermoplastics), elastomers, metals, ceramics and composite materials. His practical guidance covers joint design and durability, application methods, test methods and troubleshooting techniques. The science and technology of adhesion, and the principles of adhesive bonding are explained in a way that enhances the reader's understanding of the fundamentals that underpin the successful use and design of adhesives. The third edition has been updated throughout to include recent developments in the industry, with new sections covering technological advances such as nanotechnology, micro adhesion systems, and the replacement of toxic chromate technology.Provides practitioners of adhesion technology with a complete guide to bonding materials successfullyCovers the whole range of commonly used substrates including plastics, metals, elastomers and ceramics, explaining basic principles and describing common materials and application techniquesIntroduces the range of commercially available adhesives and the selection process alongside the science and technology of adhesion

Book Information

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Customer Reviews

Sina Ebnesajjad is the series editor of Plastics Design Library (PDL) published in the William Andrew imprint of Elsevier. This Series is a unique series, comprising technology and applications handbooks, data books and practical guides tailored to the needs of practitioners. Sina was the editor-in-chief of William Andrew Publishing from 2005 to 2007, which was acquired by Elsevier in 2009. He retired as a Senior Technology Associate in 2005 from the DuPont fluoropolymers after nearly 24 years of service. Sina founded of FluoroConsultants Group, LLC in 2006 where he continues to work. Sina earned his Bachelor of Science from the School of Engineering of the University of Tehran in 1976, Master of Science and PhD from the University of Michigan, Ann Arbor, all in Chemical Engineering. He is author, editor and co-author of fifteen technical and data books including five handbooks on fluoropolymers technology and applications. He is author and co-author of three books in surface preparation and adhesion of materials, two of which are in their second editions. Sina has been involved with technical writing and publishing since 1974.His experiences include fluoropolymer technologies (polytetrafluoroethylene and its copolymers) including polymerization, finishing, fabrication, product development, failure analysis, market development and technical service. Sina holds six patents.

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