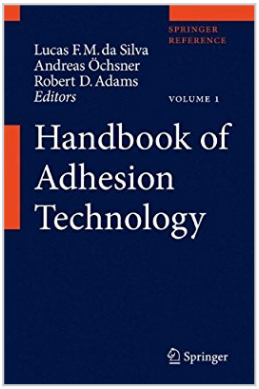

Handbook of Adhesion Technology

From Springer

Handbook of Adhesion Technology From Springer

Adhesives have been used for thousands of years, but until 100 years ago, the vast majority was from natural products such as bones, skins, fish, milk, and plants. Since about 1900, adhesives based on synthetic polymers have been introduced, and today, there are many industrial uses of adhesives and sealants. It is difficult to imagine a product?in the home, in industry, in transportation, or anywhere else for that matter?that does not use adhesives or sealants in some manner.

The Handbook of Adhesion Technology is intended to be the definitive reference in the field of adhesion. Essential information is provided for all those concerned with the adhesion phenomenon. Adhesion is a phenomenon of interest in diverse scientific disciplines and of importance in a wide range of technologies. Therefore, this handbook includes the background science (physics, chemistry and materials science), engineering aspects of adhesion and industry specific applications. It is arranged in a user-friendly format with ten main sections: theory of adhesion, surface treatments, adhesive and sealant materials, testing of adhesive properties, joint design, durability, manufacture, quality control, applications and emerging areas. Each section contains about five chapters written by internationally renowned authors who are authorities in their fields.

This book is intended to be a reference for people needing a quick, but authoritative, description of topics in the field of adhesion and the practical use of adhesives and sealants. Scientists and engineers of many different backgrounds who need to have an understanding of various aspects of adhesion technology will find it highly valuable. These will include those working in research or design, as well as others involved with marketing services. Graduate students in materials, processes and manufacturing will also want to consult it.

Handbook of Adhesion Technology

From Springer

Handbook of Adhesion Technology From Springer

Adhesives have been used for thousands of years, but until 100 years ago, the vast majority was from natural products such as bones, skins, fish, milk, and plants. Since about 1900, adhesives based on synthetic polymers have been introduced, and today, there are many industrial uses of adhesives and sealants. It is difficult to imagine a product?in the home, in industry, in transportation, or anywhere else for that matter?that does not use adhesives or sealants in some manner.

The Handbook of Adhesion Technology is intended to be the definitive reference in the field of adhesion. Essential information is provided for all those concerned with the adhesion phenomenon. Adhesion is a phenomenon of interest in diverse scientific disciplines and of importance in a wide range of technologies. Therefore, this handbook includes the background science (physics, chemistry and materials science), engineering aspects of adhesion and industry specific applications. It is arranged in a user-friendly format with ten main sections: theory of adhesion, surface treatments, adhesive and sealant materials, testing of adhesive properties, joint design, durability, manufacture, quality control, applications and emerging areas. Each section contains about five chapters written by internationally renowned authors who are authorities in their fields.

This book is intended to be a reference for people needing a quick, but authoritative, description of topics in the field of adhesion and the practical use of adhesives and sealants. Scientists and engineers of many different backgrounds who need to have an understanding of various aspects of adhesion technology will find it highly valuable. These will include those working in research or design, as well as others involved with marketing services. Graduate students in materials, processes and manufacturing will also want to consult it.

Handbook of Adhesion Technology From Springer Bibliography

- Sales Rank: #2674618 in Books
- Published on: 2011-06-09
- Original language: English
- Number of items: 2
- Dimensions: 9.20" h x 3.80" w x 6.40" l, 5.70 pounds
- Binding: Hardcover
- 1554 pages

Editorial Review

About the Author

About the Editors:

ANDREAS OECHSNER, born 1970, is Full Professor at the Faculty of Mechanical Engineering, Technical University of Malaysia. He graduated 1997 at the Stuttgart University in Aviation and Aerospace Engineering and finished his PhD-studies in 2003 at the Erlangen University. Between 2003 and 2007, Andreas Oechnser was Assistant Professor and Head of Cellular Metals Group (Centre for Mechanical Technology and Automation) at the University of Aveiro, Portugal.

He is member of the editorial boards of the "International Journal of Molecular Engineering", " International Journal of Multiphysics" and the "International Journal of Nano and Biomaterials"

Awards

- Book-Award from the Chemical Industry Fund in Frankfurt, Germany, 1987
-Award for best High School Graduation, Germany, 1990
- State Parliament's Award, Germany, 1993

LUCAS FILIPE MARTINS DA SILVA is currently Assistant Professor at the Faculty of Engineering of the University of Porto. He received a PhD related to adhesive bonding in 2004 from the University of Bristol under the supervision of Prof RD Adams. Since then, he has been teaching and investigating structural adhesive joints. The work covers a wide range of engineering structural adhesives such as epoxies, acrylics and bismaleimides. Several test methods for adhesive joints are available at the FEUP including various joint configurations such as bulk specimens, lap shear joints and butt joints. In addition to the experimental expertise, detailed analytical models and finite element analysis of stresses and strains within the joints are also undertaken.

In 2005 he joined the editorial board of the "International Journal of Adhesion and Adhesives"

ROBERT DAVID ADAMS, born 1940 is Emeritus Professor of Applied Mechanics, Department of Mechanical Engineering at University of Bristol. 1967 Professor Adams became Lecturer, Reader 1975, Professor 1986. From 1994 to 1998 he headed the Department. 1998 he became Graduate Dean of the Faculty of Engineering, University of Bristol and kept this position until 2004.

He is active member in the Institution of Mechanical Engineers, Institute of Materials

Institute of Physics, British Standards Institute and the Engineering Science Data Unit.

Professor Adams is Joint Editor-in-Chief of the "International Journal of Adhesion and Adhesives" and member of the Editorial board of: Journal of Adhesion, Nondestructive Testing and Evaluation International, Series A : Japan Society of Mechanical Engineers International Journal. Journal of Materials: Design & Applications, Proc. IMechE Part L.

Degrees and awards:

State Scholarship, 1958 Clothworkers' Scholarship (awarded to the student who stands highest in the Imperial College Entrance Scholarship Examination), 1959

BSc (Eng), First Class Honours, Imperial College, University of London, 1962

PhD, University of Cambridge, St John's College, 1967

DSc (Eng), University of London, 1986

Visiting Foreign Francqui Chair and Medal at the Free University of Brussels (VUB), 1991

Honorary Professorship of the Huazhong (Wuhan) University of Science & Technology (PRC), 1995.

Users Review

From reader reviews:

Barbara Akins:

This book untitled Handbook of Adhesion Technology to be one of several books that will best seller in this year, this is because when you read this reserve you can get a lot of benefit into it. You will easily to buy this particular book in the book retail store or you can order it by way of online. The publisher on this book sells the e-book too. It makes you quickly to read this book, since you can read this book in your Touch screen phone. So there is no reason for your requirements to past this guide from your list.

Lewis Labelle:

Spent a free a chance to be fun activity to perform! A lot of people spent their free time with their family, or their own friends. Usually they accomplishing activity like watching television, going to beach, or picnic from the park. They actually doing ditto every week. Do you feel it? Do you wish to something different to fill your own personal free time/ holiday? Could be reading a book might be option to fill your cost-free time/ holiday. The first thing you will ask may be what kinds of publication that you should read. If you want to test look for book, may be the publication untitled Handbook of Adhesion Technology can be good book to read. May be it is usually best activity to you.

Jeremy Bryant:

Playing with family within a park, coming to see the ocean world or hanging out with good friends is thing that usually you have done when you have spare time, subsequently why you don't try issue that really

opposite from that. One activity that make you not feeling tired but still relaxing, trilling like on roller coaster you are ride on and with addition details. Even you love Handbook of Adhesion Technology, you could enjoy both. It is good combination right, you still need to miss it? What kind of hang-out type is it? Oh can occur its mind hangout folks. What? Still don't get it, oh come on its named reading friends.

Rose Taylor:

In this time globalization it is important to someone to receive information. The information will make anyone to understand the condition of the world. The condition of the world makes the information easier to share. You can find a lot of referrals to get information example: internet, classifieds, book, and soon. You will see that now, a lot of publisher in which print many kinds of book. The book that recommended to you is Handbook of Adhesion Technology this publication consist a lot of the information on the condition of this world now. This particular book was represented how does the world has grown up. The dialect styles that writer value to explain it is easy to understand. Often the writer made some exploration when he makes this book. Here is why this book suited all of you.

Read Handbook of Adhesion Technology From Springer for online ebook

Handbook of Adhesion Technology From Springer Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Handbook of Adhesion Technology From Springer books to read online.

Online Handbook of Adhesion Technology From Springer ebook PDF download

Handbook of Adhesion Technology From Springer Doc

Handbook of Adhesion Technology From Springer Mobipocket

Handbook of Adhesion Technology From Springer EPub

OB25UHS1TJ7: Handbook of Adhesion Technology From Springer