



Adhesion and Adhesives: Science and Technology

By Anthony J. Kinloch

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Over the last decade, or so, the growth in the use of adhesives, especially in ever more technically demanding applications, has been rapid and many major developments in the technology of adhesives have been reported. This growth has also led to attention being focused on somewhat more basic studies of the science of adhesion and adhesives, and in recent years our level of fundamental knowledge concerning the formation and mechanical performance of adhesive joints has increased dramatically. Such studies have, of course, been aided greatly by the development of the tools at the disposal of the investigators. For example, specific surface analytical techniques, such as X-ray photoelectron and secondary-ion mass spectroscopy, and the increasingly sophisticated methods of stress analysis and fracture mechanics have been put to good use in furthering our understanding of the science of adhesion and adhesives. The present book attempts to review the multidisciplinary subject of adhesion and adhesives, considering both the science and technology involved in the formation and mechanical performance of adhesive joints. The author would like to thank his friends and colleagues for useful discussions and help in the preparation of this book. I am particularly grateful to P. Cawley, J. Comyn, W. A. Lees, A. C. Roulin-Moloney, W. C. Wake, J. G. Williams and R. J. Young who have read and commented on various chapters and P. Farr for preparing the diagrams.

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Editorial Review

Review

The author is to be congratulated on having achieved a comprehensive and perceptive treatment of the current status of the subject, within a volume of moderate size...this book can be recommended to anyone who has more than a superficial interest in the field, including specialists who wish to understand the significance of recent work in areas outside their own. - Journal of Adhesion; ...a wealth of tables, graphs and photos to support the text, and each chapter has extensive formulations...an essential reference text...an excellent source book for those wishing to learn more than the basics of adhesive technology...VERY HIGHLY RECOMMENDED! - Adhesives and Sealants Newsletter

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