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Adhesion Science (RSC Publishing) John Comyn

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This popular science title covers adhesion science in an easily accessible entertaining manner. As well as outlining types of adhesion and their importance in everyday life, the book covers interesting future applications of adhesion and inspiration taken from nature. Ideal for students and the scientifically minded reader this book provides a fascinating introduction to the science of what makes things stick.

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Adhesion Science provides an illuminating account of the science underlying the use of adhesives, a branch of chemical technology which is fundamental to the science of coatings and composite materials and to the performance of all types of bonded structures.

The use of adhesives is widespread and growing, and there are few modern artefacts, from the simple cereal packet, to the jumbo jet, that are without this means of joining. Adhesion Science provides an illuminating account of the science underlying the use of adhesives, a branch of chemical technology which is fundamental to the science of coatings and composite materials and to the performance of all types of bonded structures. This book guides the reader through the essential basic polymer science, and the chemistry of adhesives in use at present. It discusses surface preparation for adhesive bonding, and the use of primers and coupling agents. There is a detailed chapter on contact angles and what can be predicted from them. A simple guide on stress distribution joints and how this relates to testing is included. It also examines the interaction of adhesives and the environment, including an analysis of the resistance of joints to water, oxygen and ultra-violet light. Adhesion Science provides a comprehensive introduction to the chemistry of adhesives, and will be of interest not only to chemists, but also to readers with a background in physical or materials science.

The Mechanics of Adhesion shows that adhesion science and technology is inherently an interdisciplinary field, requiring fundamental understanding of mechanics, surfaces, and materials. This volume comprises 19 chapters. Starting with a background and introduction to stress transfer principles; fracture mechanics and singularities; and an energy approach to debonding, the volume continues with analysis of structural lap and butt joint configurations. It then continues with discussions of test methods for strength and constitutive properties; fracture; peel; coatings, the case of adhesion to a single substrate; elastomeric adhesives such as sealants. The role of mechanics in determining the locus of failure in bonded joints is discussed, followed by a chapter on rheology relevant to adhesives and sealants. Pressure sensitive adhesive performance; the principles of tack and tack measurements; and contact mechanics relevant to wetting and surface energy measurements are then covered. The volume concludes with sections on fibermatrix bonding and reinforcement; durability considerations for adhesive bonds; ultrasonic non-destructive evaluation of adhesive bonds; and design of adhesive bonds from a strength perspective. This book will be of interest to practitioners in the fields of engineering and to those with an interest in adhesion science.

Many modern surface coatings and adhesives are derived from fossil feedstocks. With fossil fuels becoming more polluting and expensive to extract as supplies dwindle, industry is turning increasingly to nature, mimicking natural solutions using renewable raw materials and employing new technologies. Highlighting sustainable technologies and applications of renewable raw materials within the framework of green and sustainable chemistry, circular economy and resource efficiency, this book provides a cradle-to-cradle perspective. From potential feedstocks to recycling/reuse opportunities and the de-manufacture of adhesives and solvents, green chemistry principles are applied to all aspects of surface coating, printing, adhesive and sealant manufacture. This book is ideal for students, researchers and industrialists working in green sustainable chemistry, industrial coatings, adhesives, inks and printing technologies.

This book aims to provide a comprehensive reference into the critical subject of failure and degradation in organic materials, used in optoelectronics and microelectronics systems and devices. Readers in different industrial sectors, including microelectronics, automotive, lighting, oil/gas, and petrochemical will benefit from this book. Several case studies and examples are discussed, which readers will find useful to assess and mitigate similar failure cases. More importantly, this book presents methodologies and useful approaches in analyzing a failure and in relating a failure to the reliability of materials and systems. Presents methodologies for analysing the reliability, failure, and degradation of different organic materials, used in optoelectronics and microelectronics; Provides an overview of different failure mechanisms in different organic materials; Explains how to correlate product performance and reliability to materials degradation; Provides an overview of simulation techniques and methodologies to predict lifetime and reliability of engineering materials and components; Integrates several degradation causes in different materials (thermal, moisture, light radiation, mechanical damage, and more) into large-scale system solutions in several industrial domains (lighting, automotive, oil/gas, and transport and more); Includes case studies from

different failure/degradation mechanisms in different industrial sectors.

This comprehensive reference/text provides a thorough grounding in the fundamentals of rotating machinery vibration-treating computer model building, sources and types of vibration, and machine vibration signal analysis. Illustrating turbomachinery, vibration severity levels, condition monitoring, and rotor vibration cause identification, Ro

This edited volume offers complete coverage of the latest theoretical, experimental, and computer-based data as summarized by leading international researchers. It promotes full understanding of the physical phenomena and mechanisms at work in surface and interfacial tensions and gradients, their direct impact on interface shape and movement, and their significance to numerous applications. Assessing methods for the accurate measurement of surface tension, interfacial tension, and contact angles, Surface and Interfacial Tension presents modern simulations of complex interfacial motions, such as bubble motion in liquids, and authoritatively illuminates bubble nucleation and detachment.

Chocolate is available to today's consumers in a variety of colours, shapes and textures. But how many of us, as we savour our favourite brand, consider the science that has gone into its manufacture? This book describes the complete chocolate making process, from the growing of the beans to the sale in the shops. The Science of Chocolate first describes the history of this intriguing substance. Subsequent chapters cover the ingredients and processing techniques, enabling the reader to discover not only how confectionery is made but also how basic science plays a vital role with coverage of scientific principles such as latent and specific heat, Maillard reactions and enzyme processes. There is also discussion of the monitoring and controlling of the production process, and the importance, and variety, of the packaging used today. A series of experiments, which can be adapted to suit students of almost any age, is included to demonstrate the physical, chemical or mathematical principles involved. Ideal for those studying food science or about to join the confectionery industry, this mouth-watering title will also be of interest to anyone with a desire to know more about the production of the world's favourite confectionery.

Rapid advances in technology require materials with improved property profiles. Polymer modification using grafting and crosslinking are key ways to achieve this in an economical way and without the need for developing new materials. Often widely disparate and in a number of references, practical information on polymer grafting and crosslinking is now available in one volume. Researchers seeking information that bridges the knowledge gap between the scientific principles and industrial applications of polymer crosslinking and grafting will find coverage on the basic science, the methodologies, and a focus on the specific techniques used in a variety of industrial applications such as automotive, laminates, paints, adhesives, and cable. Coverage also includes potential biomedical applications. Descriptions of analytical tools that can be used to evaluate the results are also included.

This popular science title will cover adhesion science in an easily accessible entertaining manner. As well as outlining types of adhesion and their importance in everyday life, the book covers interesting future applications of adhesion and inspiration taken from nature. Ideal for students and the scientifically minded reader this book provides a fascinating introduction to the science of what makes things stick.

"The Chemistry of Polymers is a concise, easy-to-read, inexpensive introduction to the subject and fulfils the need for a polymer text written from an applied angle. It covers the basics of polymer chemistry while emphasising the practical applications and is essential for those who wish to acquire a rapid overview of the field. This book covers the basics of polymer synthesis, characterisation, reaction kinetics and materials science, as well as important specialised topics such as polymer degradation, polymers and pollution, and a variety of technological developments. Now in its second edition, the book has been revised and expanded to reflect recent developments in the subject. There are, for example, extensive updates to the "Special topics in polymer chemistry" section, with an additional section on optically active polymers, expanded sections on ionic and co-ordination polymerisations, and copolymerisation, and additional examples of new environmental legislation are outlined wherever appropriate."

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