



# Adhesion Science: Principles and Practice

*Steven Abbott*

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# Adhesion Science: Principles and Practice

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## **Adhesion Science: Principles and Practice** Steven Abbott

Explains the physics and chemistry of adhesion, surface preparation and tests Presents new strategies for formulating superior strong, weak and pressure-sensitive adhesives Includes access to unique electronic apps that enable numerical modeling of adhesives This technical bound book explains the basic principles of adhesion and shows how they are used to formulate and improve adhesives. The volume starts by laying out key physical and chemical concepts underlying adhesion and adhesives, including strong and weak bonds plus pressure-sensitive (PSA) across multiple polymer, metal and ceramic adherends. The ideas are expressed in clear and easily understood mathematical formulas that explain surface properties as well as "good" and "bad" adhesion, with the latter covering multiple types of adhesive failure. In this context, the book presents a detailed explanation of methods to predict, test and formulate adhesives and critically analyzes test results and traditionally accepted rules for adhesive formulation. The eBook version includes online access to a unique set of applied computer programs or "apps" that automate a wide range of adhesive formulas and enable readers to input their own data and numerically model adhesion properties in conjunction with, or prior to, chemical compounding and empirical testing. This volume constitutes a lucid and practical introduction to adhesion and adhesives appropriate for specialists at all levels.

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