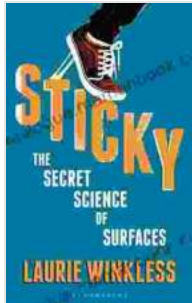


Sticky: The Secret Science of Surfaces

Have you ever wondered why a gecko can walk upside down on a ceiling? Or how a sticky note sticks to your fridge? The answer to these questions lies in the science of adhesives.



Sticky: The Secret Science of Surfaces by Laurie Winkless

★★★★☆ 4.5 out of 5

Language	: English
File size	: 3616 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
X-Ray	: Enabled
Word Wise	: Enabled
Print length	: 320 pages



Adhesives are materials that bond two surfaces together. They can be natural or synthetic, and they come in a variety of forms, including glue, tape, and Velcro. Adhesives work by creating a strong bond between two surfaces, either by mechanical interlocking or by chemical bonding.

Mechanical interlocking is the most common type of adhesive bond. In this type of bond, the adhesive fills the gaps between the two surfaces, creating a strong mechanical bond. Examples of mechanical interlocking adhesives include tape and Velcro.

Chemical bonding is a stronger type of adhesive bond. In this type of bond, the adhesive molecules actually bond to the molecules of the two

surfaces, creating a covalent bond. Examples of chemical bonding adhesives include glue and epoxy.

The strength of an adhesive bond depends on a number of factors, including the type of adhesive, the surface roughness of the two surfaces, and the amount of pressure applied during bonding. The ideal adhesive for a given application will depend on these factors.

Adhesives play a vital role in our everyday lives. They are used in everything from construction to manufacturing to packaging. Without adhesives, our world would be a much more difficult place.

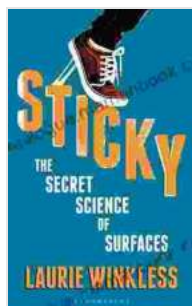
Here are some interesting facts about adhesives:

- The first known adhesive was used in ancient Egypt around 3000 BC. It was made from a mixture of beeswax and resin.
- The strongest adhesive in the world is called Super Glue. It was developed in the 1950s and is used in a variety of industrial and consumer applications.
- Adhesives are used in a variety of medical applications, including wound closure, tissue repair, and drug delivery.
- Adhesives are also used in the automotive industry to bond together different parts of a car.
- The global adhesive market is expected to reach \$50 billion by 2025.

Adhesives are amazing materials that make our lives easier and more convenient. They are used in a wide variety of applications, from construction to manufacturing to packaging. The science of adhesives is

constantly evolving, and new and innovative adhesives are being developed all the time.

So next time you use a sticky note or a piece of tape, take a moment to appreciate the science behind these amazing materials.



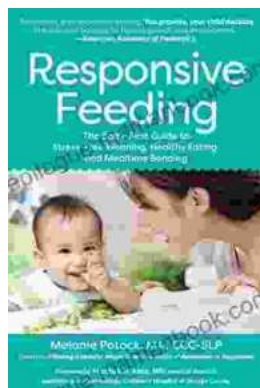
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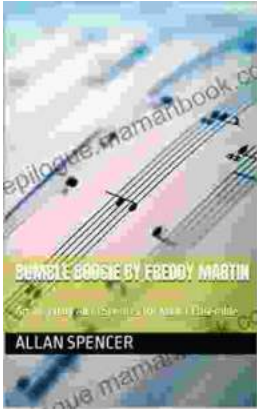
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