Superhydrophobic Surfaces

Description: Superhydrophobic Surfaces analyzes the fundamental concepts of superhydrophobicity and gives insight into the design of superhydrophobic surfaces. The book serves as a reference for the manufacturing of materials with superior water-repellency, self-cleaning, anti-icing and corrosion resistance. It thoroughly discusses many types of hydrophobic surfaces such as natural superhydrophobic surfaces, superhydrophobic polymers, metallic superhydrophobic surfaces, biological interfaces, and advanced/hybrid superhydrophobic surfaces.

- Provides an adequate blend of complex engineering concepts with in-depth explanations of biological principles guiding the advancement of these technologies
- Describes complex ideas in simple scientific language, avoiding overcomplicated equations and discipline-specific jargon
- Includes practical information for manufacturing superhydrophobic surfaces
- Written by experts with complementary skills and diverse scientific backgrounds in engineering, microbiology and surface sciences

Contents:

1. The concept of superhydrophobicity  
2. Natural superhydrophobic surfaces  
3. Soil wettability  
4. Superhydrophobic polymers  
5. Metallic superhydrophobic surfaces  
6. Insights into the design of superhydrophobic surfaces  
7. Biological interfaces  
8. Advanced/hybrid superhydrophobic surfaces

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