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   Sommario/riassunto During the past decade, the superhydrophobic surfaces, bio-inspired non-wettable surfaces, have aroused worldwide interest. The super water-repellant surface has special characteristics such as low surface energy as well as hierarchical micro/nano surface roughness. These surfaces have many practical applications, from industrial to biomedical applications, including water/oil separation, self-cleaning, drag reduction, anti-fogging, anti-bacterial, anti-fouling, anti-icing, corrosion resistance, as well as many applications in industries such as marine, oil, and gas, aerospace, biomedicine etc. This book presents knowledge on the field of application of superhydrophobic surfaces. Superhydrophobicity has become a hot topic in the academics as well as industries in different engineering and biomedicine research fields.