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Titolo	Wetting of real surfaces [[electronic resource] /] / by Edward Yu. Bormashenko
Pubbl/distr/stampa	Berlin ; ; New York, : De Gruyter, 2013
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Descrizione fisica	1 online resource (188 p.)
Collana	De Gruyter Studies in Mathematical Physics ; ; 19
Disciplina	530.4/27
Soggetti	Surface tension Wetting Solid-liquid interfaces Hysteresis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Preface -- Notation -- Contents -- Chapter 1: What is surface tension? -- Chapter 2: Wetting of ideal surfaces -- Chapter 3: Contact angle hysteresis -- Chapter 4: Dynamics of wetting -- Chapter 5: Wetting of rough and chemically heterogeneous surfaces: the Wenzel and Cassie models -- Chapter 6: Superhydrophobicity, superhydrophilicity, and the rose petal effect -- Chapter 7: Wetting transitions on rough surfaces -- Chapter 8: Electrowetting and wetting in the presence of external fields -- Chapter 9: Nonstick droplets -- Index
Sommario/riassunto	The revealing of the phenomenon of superhydrophobicity (the "lotus-effect") has stimulated an interest in wetting of real (rough and chemically heterogeneous) surfaces. In spite of the fact that wetting has been exposed to intensive research for more than 200 years, there still is a broad field open for theoretical and experimental research, including recently revealed superhydrophobic, superoleophobic and superhydrophilic surfaces, so-called liquid marbles, wetting transitions, etc. This book integrates all these aspects within a general framework of wetting of real surfaces, where physical and chemical heterogeneity is essential. Wetting of rough/heterogeneous surfaces is discussed

		through the use of the variational approach developed recently by the author. It allows natural and elegant grounding of main equations describing wetting of solid surfaces, i.e. Young, Wenzel and Cassie-Baxter equations. The problems of superhydrophobicity, wetting transitions and contact angle hysteresis are discussed in much detail, in view of novel models and new experimental data.

2.	Record Nr.	UNINA9910698400503321
	Titolo	Consumer-oriented strategies for improving health benefit design : an overview
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	Descrizione fisica	1 online resource
	Collana	Technical review Consumer-oriented strategies for improving health benefit design
	Disciplina	658.3/254
	Soggetti	Health insurance - Research - United States Medical care - United States Insurance, Health Quality of Health Care Models, Theoretical Community Participation United States
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