

1. Record Nr.	UNINA9910789087703321
Autore	Bormashenko Edward A
Titolo	Wetting of real surfaces [[electronic resource] /] / by Edward Yu. Bormashenko
Pubbl/distr/stampa	Berlin ; ; New York, : De Gruyter, 2013
ISBN	1-68015-206-8 3-11-025879-X
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.	UNINA9910795851803321
Autore	Eidinow Esther <1970->
Titolo	Oracles, curses, and risk among the ancient Greeks [[electronic resource] /] / Esther Eidinow
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2007
ISBN	0191557226 9780191557224
Descrizione fisica	xii, 516 p. : ill., maps
Disciplina	292.3/2
Soggetti	Oracles, Greek Blessing and cursing - Greece Greece Religious life and customs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (p. [456]-480) and indexes.