1. Record Nr. UNINA9910792293703321

Autore	Johnson Addie
Titolo	Attention [[electronic resource]] : theory and practice / / Addie Johnson, Robert W. Proctor
Pubbl/distr/stampa	London, : SAGE, 2004
ISBN	1-322-60542-4 1-4833-7681-8 1-4833-2876-7
Descrizione fisica	1 online resource (xiv, 474 p.) : ill
Altri autori (Persone)	ProctorRobert W
Disciplina	153.733
Soggetti	Attention Information processing Memory
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 (pages 397-447) and indexes.
Nota di contenuto	Historical overview of research on attention -- Information processing and the study of attention -- Selective visual attention -- Auditory and crossmodal attention -- Attention and inhibition -- Multiple-task performance -- Memory and attention -- Attention and displays -- Mental workload and situation awareness -- Individual differences in attention -- The cognitive neuroscience of attention -- Disorders of attention.
Sommario/riassunto	The authors provide a balance between a readable overview of attention and an emphasis on how theories and paradigms for the study of attention have developed. It is an ideal text for advanced undergraduate and graduate students in psychology.

2. Record Nr. UNINA9910827433303321

Titolo	Advances in contact angle, wettability and adhesion . Volume 1 / / edited by K. L. Mittal
Pubbl/distr/stampa	Salem, Mass., : Scrivener/Wiley, c2013
ISBN	9781118795613 111879561X 9781118795620 1118795628 9781118795637 1118795636
Edizione	[1st ed.]
Descrizione fisica	1 online resource (436 p.)
Collana	Adhesion and adhesives : fundamental and applied aspects
Altri autori (Persone)	MittalK. L. <1945->
Disciplina	541/.33
Soggetti	Surface chemistry Contact angle Wetting Adhesion
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.
Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; Acknowledgements; Part 1: Fundamental Aspects; 1 Correlation between Contact Line Pinning and Contact Angle Hysteresis on Heterogeneous Surfaces: A Review and Discussion; 1.1 Introduction; 1.2 Contact Line Pinning on Chemically Heterogeneous Flat Surfaces; 1.3 Contact Line Pinning on Hydrophobic Structured Surfaces; 1.4 Summary and Conclusion; References; 2 Computational and Experimental Study of Contact Angle Hysteresis in Multiphase Systems; 2.1 Introduction; 2.2 Origins of the CA Hysteresis 2.3 Modeling Wetting/Dewetting in Multiphase Systems2.3.1 CA in Multiphase Systems; 2.3.2 CA Hysteresis in Multiphase Systems; 2.4 Experimental Observations; 2.5 Numerical Modeling of CA Hysteresis; 2.5.1 Background; 2.5.2 The Cellular Potts Model; 2.5.3 The Cellular Potts Modeling of Wetting; 2.5.4 Results; 2.6 Conclusions; Acknowledgement; References; 3 Heterogeneous Nucleation on a

Completely Wettable Substrate; 3.1 Introduction; 3.2 Interface-Displacement Model; 3.3 Nucleation on a Completely-Wettable Flat Substrate; 3.3.1 d = 2-dimensional Nucleus; 3.3.2 d = 3-dimensional Nucleus
3.4 Nucleation on a Completely-Wettable Spherical Substrate3.5 Conclusion; Acknowledgments; References; 4 Local Wetting at Contact Line on Textured Hydrophobic Surfaces; 4.1 Introduction; 4.2 Static Contact Angle; 4.2.1 Global Approach - Thermodynamic Equilibrium; 4.2.2 Local Approach - Force Balance; 4.3 Wetting of Single Texture Element; 4.4 Summary; References; 5 Fundamental Understanding of Drops Wettability Behavior Theoretically and Experimentally; 5.1 Introduction; 5.2 Discussion; 5.3 Conclusion; References
6 Hierarchical Structures Obtained by Breath Figures Self-Assembly and Chemical Etching and their Wetting Properties6.1 Introduction; 6.2 Materials and Methods; 6.2.1 Fabricating Hierarchical Polymer Surfaces; 6.2.2 Characterization of the Wetting Properties of Polymer Surfaces; 6.2.3 Plasma Treatment of the Surfaces; 6.2.4 B.E.T Characterization of the Surfaces; 6.3 Results and Discussion; 6.3.1 Morphology and Wetting Properties of the Multi-scaled PC Surfaces; 6.3.2 Modification of Wetting Properties of the Multi-scaled Surfaces with Cold Radiofrequency Plasma Treatment
6.3.3 B.E.T Study of the Surfaces6.4 Conclusions; Acknowledgements; References; 7 Computational Aspects of Self-Cleaning Surface Mechanisms; 7.1 Introduction; 7.2 Droplet Membrane; 7.2.1 Governing Equations in Strong Form; 7.2.1.1 Surface Contact; 7.2.1.2 Line Contact; 7.2.1.3 Surface Roughness; 7.2.2 Weak Formulation of the Governing Equations; 7.2.2.1 Finite Element Implementation; 7.2.3 Model Verification; 7.2.3.1 Force Equilibrium; 7.2.4 Particle-Droplet Interaction; 7.3 Flow Model; 7.3.1 Governing Equations; 7.3.2 Finite Element Implementation
7.3.3 Normal and Tangential Velocities at the Boundary

Sommario/riassunto

The topic of wettabilty is extremely important from both fundamental and applied aspects. The applications of wettability range from self-cleaning windows to micro- and nanofluidics. This book represents the cumulative wisdom of a contingent of world-class (researchers engaged in the domain of wettability. In the last few years there has been tremendous interest in the ""Lotus Leaf Effect"" and in understanding its mechanism and how to replicate this effect for myriad applications. The topics of superhydrophobicity, omniphobicity and superhydrophilicity are of much contemporary interest and