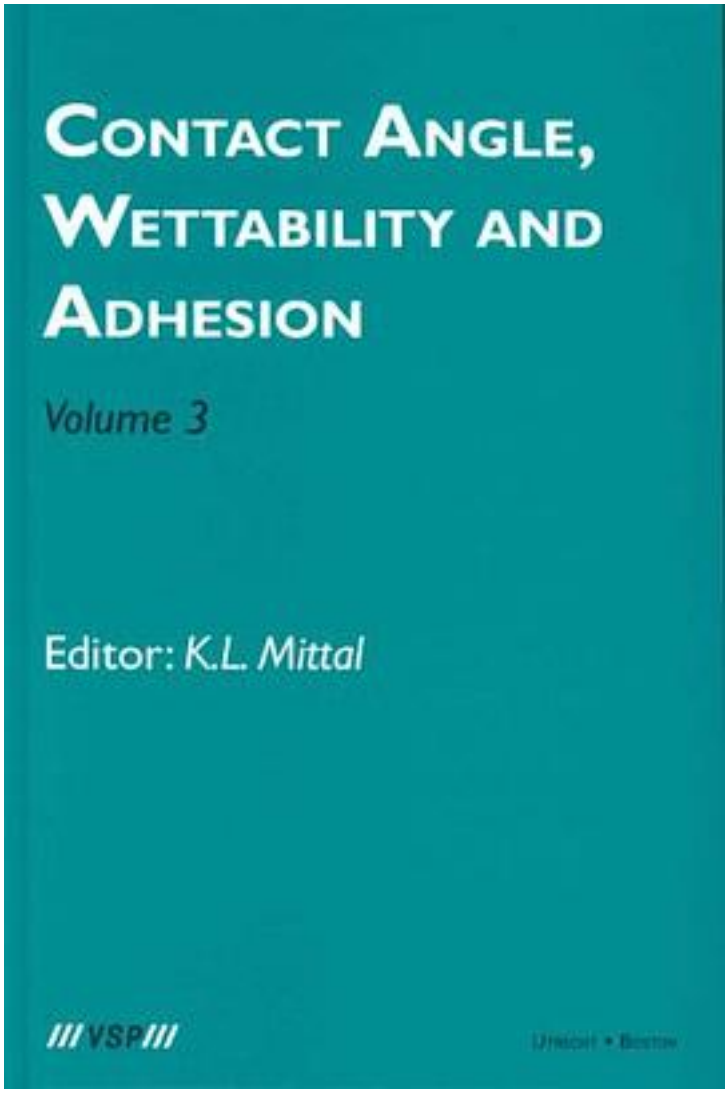
Contact Angle, Wettability and Adhesion



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This volume chronicles the proceedings of the 5th International Symposium on Contact Angle, Wettability and Adhesion Toronto, Canada, June 2006. Wettability is of pivotal importance in many and varied arenas, ranging from mundane to micro-and nanofluidics to lithography to biomedical. It should be underscored that in the last years there has been burgeoning interest in replicating the so-called "Lotus Leaf Effect" to create superhydrophobic surfaces. This volume contains a total of 19 papers covering many facets of contact angle, wettability and adhesion. All manuscripts were rigorously peer-reviewed and revised and edited before inclusion in this book. Concomitantly, this volume represents an archival publication of the highest standard. This book (5th volume in the series) is divided into three parts: Part 1 - Contact Angle Measurements and Solid Surface Free Energy; Part 2 - Relevance of Wetting in Cleaning and Adhesion; and, Part 3 - Superhydrophobic Surfaces.The topics covered include: fundamental aspects of contact angle and its measurement; solidification contact angles of micro-droplets; microscopic wettability of wood call walls; dynamic vapor-liquid interfacial tension; surface free energy of polymeric materials; surface cleanliness evaluation from wettability measurements; wettability parameters affecting surface cleanability of stainless steel and textiles; wetting and adhesion in fibrous materials; wettability and adhesion of coatings; adhesion of hydrophobizing agents; modulation of surface properties of polymers; graft efficiency and adhesion; relevance of interfacial free energy in cell adhesion; and, various approaches to create superhydrophobic surfaces; adsorption of surfactants on hydrophobic and superhydrophobic surfaces.

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