Droplet Wetting and Evaporation: From Pure to Complex Fluids

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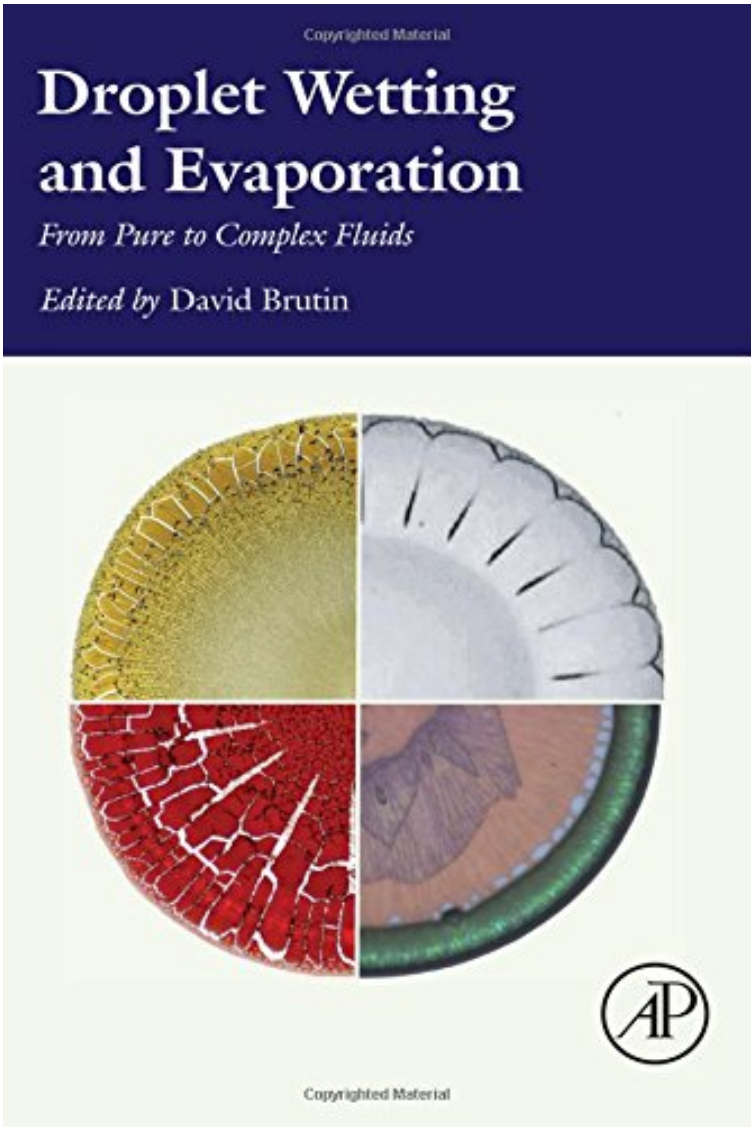

#2247232 in Books Ingramcontent 2015-06-03Original language:EnglishPDF # 1 9.02 x 1.00 x 5.98l, .0 #File Name: 0128007222464 pagesDroplet Wetting and Evaporation From Pure to Complex Fluids | File size: 72.Mb

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Droplet Wetting and Evaporation provides engineers, students, and researchers with the first comprehensive guide to

the theory and applications of droplet wetting and evaporation. Beginning with a relevant theoretical background, the book moves on to consider specific aspects, including heat transfer, flow instabilities, and the drying of complex fluid droplets. Each chapter covers the principles of the subject, addressing corresponding practical issues and problems. The text is ideal for a broad range of domains, from aerospace and materials, to biomedical applications, comprehensively relaying the challenges and approaches from the different communities leading the way in droplet research and development.Provides a broad, cross-subject coverage of theory and application that is ideal for engineers, students and researchers who need to follow all major developments in this interdisciplinary fieldIncludes comprehensive discussions of heat transfer, flow instabilities, and the drying of complex fluid dropletsBegins with an accessible summary of fundamental theory before moving on to specific areas such as heat transfer, flow instabilities, and the drying of complex fluid droplets

About the AuthorDavid Brutin is Professor in the Department of Mechanical Engineering of Aix-Marseille University. He is currently working on phase change heat transfer with pure and complex fluids, for example blood and nanofluids. His research interests include space; aeronautics; medical diagnosis; forensic science; and printing industry.