



Fundamentals of Inkjet Printing: The Science of Inkjet and Droplets

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From droplet formation to final applications, this practical book presents the subject in a comprehensive and clear form, using only content derived from the latest published results.

Starting at the very beginning, the topic of fluid mechanics is explained, allowing for a suitable regime for printing inks to subsequently be selected. There then follows a discussion on different print-head types and how to form droplets, covering the behavior of droplets in flight and upon impact with the substrate, as well as the droplet's wetting and drying behavior at the substrate. Commonly observed effects, such as the coffee ring effect, are included as well as printing in the third dimension. The book concludes with a look at what the future holds. As a unique feature, worked examples both at the practical and simulation level, as well as case studies are included.

As a result, students and engineers in R&D will come to fully understand the complete process of inkjet printing.

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Editorial Review

From the Back Cover

Inkjet printing has developed from mere text and graphics into a versatile tool for depositing a wide variety of functional materials in an additive, non-contact and digital manner. In scientific research, inkjet printers are frequently used for manufacturing purposes, including micromanufacturing, tissue engineering and rapid prototyping. The process of successful inkjet printing is a complex one and requires the optimization of many parameters, such as the ink's temperature and pressure stability so as to form a stable jet as well as the surface wettability to ensure a homogeneous final film formation.

From droplet formation to final applications, this practical book presents the subject in a comprehensive and clear manner, making use of only the very latest results.

Starting at the beginning, the topic of fluid mechanics is explained, allowing for a suitable regime for printing inks to be selected. There then follows a discussion on different print-head types and how to form droplets, covering their behavior in flight and upon impact with the substrate. Commonly observed phenomena, such as the coffee ring effect, are included as is printing in the third dimension. The book concludes with a look at what the future holds.

This practical book is unique in its worked examples both at the practical and simulation level, as well as case studies, allowing students and engineers in R&D to fully understand the complete process of inkjet printing.

About the Author

Dr. Stephen D. Hoath works in the Inkjet Research Centre of the Department of Engineering at Cambridge University, UK. After obtaining his academic degrees from Oxford University, UK, he was a Lecturer in Physics at Birmingham University and then held various positions in the UK industry. He took up his full time research appointment at Cambridge in 2005. He is a Chartered Engineer, Scientist and Physicist; with over 50 scientific publications, he is a Fellow of the Institute of Physics, and is a Governing Body Fellow and the Director of Studies in Engineering at Wolfson College Cambridge.

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