

Bubble and Foam Chemistry

This indispensable guide will equip you with a thorough understanding of the complete field of bubbles and foaming chemistry. Assuming only basic theoretical background knowledge, the book provides you with

- a straightforward introduction to the principles and properties of bubbles, foams and foaming surfactants underpinning the key ideas about why foaming occurs, how it can be avoided and how different degrees of antifoaming can be achieved;
- the latest test methods, including laboratory and industry-developed techniques;
- details on a range of different kinds of foams, from wet detergents and food foams to polymeric, material and metal foams which connect theory with real-world applications and recent developments in foam research.

Combining academic and industrial viewpoints, this book is the definitive stand-alone resource for researchers, students and industrialists working on foam technology, colloidal systems in the field of chemical engineering, fluid mechanics, physical chemistry and applied physics.

Robert J. Pugh is a Visiting Professor at Nottingham Trent University. He is an active member of the foams community and has over 30 years experience in industry and university, having worked as a foam specialist for Dow Chemical and Unilever Research. He has also worked as a Professor at the Institute for Surface Chemistry, Stockholm, and at Luleå University, Sweden, and has acted as a consultant for Akzo Nobel, Nestlé, GlaxoSmithKline, Procter and Gamble, and Arizona Chemicals. Professor Pugh has co-authored and edited two previous books in the field of surface and colloid science and authored several highly cited review papers on the topic of foams and foaming.

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ROBERT J. PUGH

Nottingham Trent University



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University Printing House, Cambridge CB2 8BS, United Kingdom

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It furthers the University's mission by disseminating knowledge in the pursuit of education, learning and research at the highest international levels of excellence.

www.cambridge.org

Information on this title: www.cambridge.org/9781107090576

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First published 2016

Printed in the United Kingdom by TJ International Ltd. Padstow Cornwall

A catalogue record for this publication is available from the British Library

Library of Congress Cataloging-in-Publication Data

Pugh, Robert J., 1942–

Bubble and foam chemistry / Robert J. Pugh, Nottingham Trent University.

Cambridge : Cambridge University Press, [2016] | Includes bibliographical references and index.

LCCN 2016023274 | ISBN 9781107090576 (alk. paper)

LCSH: Surface chemistry. | Suspensions (Chemistry) | Foam. | Bubbles.

LCC QD506 .P844 2016 | DDC 541/.33–dc23

LC record available at <http://lcn.loc.gov/2016023274>

ISBN 978-1-107-09057-6 Hardback

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