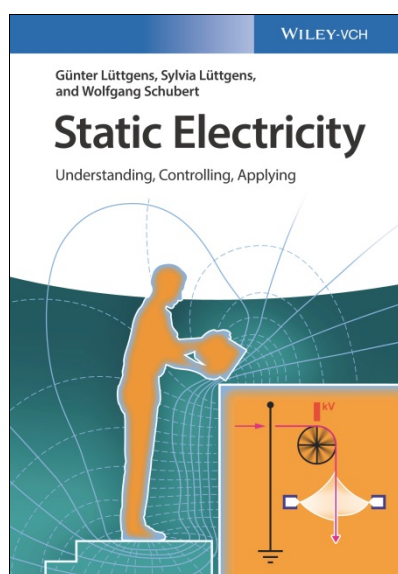


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## Static Electricity

Understanding, Controlling, Applying



2017  
304 pages with 225 figures, 152 in color  
Hardcover  
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ISBN: 978-3-527-34128-3

Written by world-renowned experts on the topic with many years of research and consultancy experience, this invaluable book provides the practitioners' perspective, outlining the dangers and benefits of static electricity in industry.

The first chapter reviews the fundamentals of understanding fires and explosions in general and electricity-induced ignition in particular, while the following chapter is dedicated to the origins of static electricity in industrial settings, such as in flowing gases and the transport of disperse systems.

The major part of the text deals with measuring static electricity, elimination of unwanted charges and hazard prevention under different conditions. It concludes with an overview of practical applications in chemical and mechanical engineering. Throughout the book, real-life case studies illustrate the fundamental aspects so as to further an understanding of how to control and apply static electricity and thus reduce material damages as well as increase occupational safety.

Plus additional movie sequences on the dedicated website showing static electricity in action.

This specialist book is addressed to:  
University teachers and students of all disciplines, who have to observe electrostatic phenomena,  
Engineers designing and operating plants in the Chemical and Oil Refining Industry,  
Manufacturers and users of plastic products,  
For all those who are working in the field of delicate electronic equipment and who are responsible for preventing electrostatic interferences,  
Inventors and developers who wish to make use of electrostatic application possibilities,  
Testing laboratories and supervisory authorities  
Trade associations and property insurances.

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