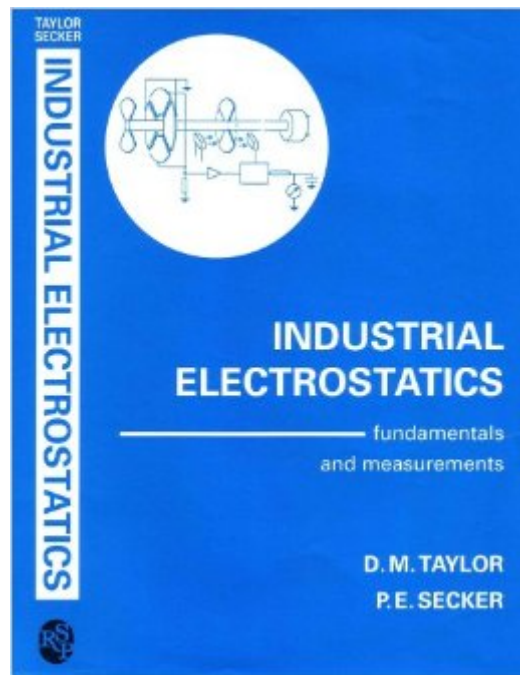


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INDUSTRIAL ELECTROSTATICS: FUNDAMENTALS AND MEASUREMENTS (Electrostatics & Electrostatic Applications)



Synopsis

This book is aimed at all those who need to understand and monitor industrial electrostatic effects. It provides a thorough treatment of the basic concepts and introduces the mechanisms by which static electricity is generated. A detailed, functional description of the instrumentation necessary for measuring all the important parameters associated with static electricity, i.e., charge, electric field, potential, minimum ignition energy, resistivity and charge relaxation time. The conceptual and theoretical backgrounds of the measurement techniques are included, thus helping the reader to make measurements on an electrostatic system, confident that major pitfalls have been avoided. Wherever possible, industrially relevant examples of each new topic are given, which will be of value both to practising technical engineers and to university students. The mathematical approach adopted is rigorous, but it is not overly formal. By application of the ideas presented in this book, the reader will be able to extract meaningful quantitative data from measurements and will gain a good physical understanding of the subject.

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