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THE MEASUREMENT, INSTRUMENTATION, AND SENSORS HANDBOOK

Editor-in-Chief
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and also serves as an overall introduction to the handbook This section also analyses current publications in the field

Fundamentals of Photonics and Components for Sensing Describes the photonic concepts and components needed in order to carried out the understanding the design and to realise photonic sensor systems

Principles and Techniques for Sensing Provides the principles and techniques in which the photonic sensing technology is based in order to understand how sensors work and how sensors can be made

Applications An ample overview of the developments which are successfully taking place in laboratory and field trials as well as the available sensors in the current market and the future trends in this field

Applications are featured throughout the text and this section focuses primarily on niche applications This handbook would prove to be a valuable reference resource for researchers engineers and postgraduate students in fibre optical sensing as well as practising engineers in optical communications and electronic engineering civil engineering aerospace industry biomedicine and robotics

Handbook of Modern Sensors Jacob Fraden, 2004 This book is about devices commonly called sensors Digital systems however complex and intelligent they might be must receive information from the outside world that is generally analog and not electrical Sensors are interface devices between various physical values and the electronic circuits who understand only a language of moving electrical charges In other words sensors are the eyes ears and noses of silicon chips Unlike other books on sensors this book is organized according to the measured variables temperature pressure position etc that make it much more practical and easier to read In this new edition recent ideas and developments have been added while less important and non essential designs were dropped Sections on practical designs and use of the modern micro machining technologies have been revised substantially This book is a reference text that can be used by students researchers interested in modern instrumentation applied physicists and engineers sensor designers application engineers and technicians whose job it is to understand select and or design sensors for practical systems The scope of this book is rather broad covering many different designs Some are well known but describing them is still useful for students and those who look for a convenient reference It is the author s intention to present a comprehensive and up to date account of the theory physical principles design and practical implementations of various sensors for scientific industrial and consumer applications

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