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Gomes, 2007-11-12 The book *Smart Sensors and MEMS* provides an unique collection of contributions on latest achievements in sensors area and technologies that have made by eleven internationally recognized leading experts from Czech Republic Germany Italy Israel Portugal Switzerland Ukraine and USA during the NATO Advanced Study Institute ASI in Povoá de Varzim Portugal from 8 to 19 September 2003 The aims of this volume are to disseminate wider and in depth theoretical and practical knowledge about smart sensors and its applications to create a clear consciousness about the effectiveness of MEMS technologies advanced signal processing and conversion methods to stimulate the theoretical and applied research in these areas and promote the practical using of these techniques in the industry With that in mind a broad range of physical chemical and biosensors design principles technologies and applications were included in the book It is a first attempt to describe in the same book different physical chemical biological sensors and MEMS technologies suitable for smart sensors creation The book presents the state of the art and gives an excellent opportunity to provide a systematic in depth treatment of the new and rapidly developing field of smart sensors and MEMS The volume is an excellent guide for practicing engineers researchers and students interested in this crucial aspect of actual smart sensor design **Smart Sensors and MEMS**

Sergey Y. Yurish, Maria T.S.R. Gomes, 2005-03-07 The book *Smart Sensors and MEMS* provides an unique collection of contributions on latest achievements in sensors area and technologies that have made by eleven internationally recognized leading experts from Czech Republic Germany Italy Israel Portugal Switzerland Ukraine and USA during the NATO Advanced Study Institute ASI in Povoá de Varzim Portugal from 8 to 19 September 2003 The aims of this volume are to disseminate

wider and in depth theoretical and practical knowledge about smart sensors and its applications to create a clear consciousness about the effectiveness of MEMS technologies advanced signal processing and conversion methods to stimulate the theoretical and applied research in these areas and promote the practical using of these techniques in the industry With that in mind a broad range of physical chemical and biosensors design principles technologies and applications were included in the book It is a first attempt to describe in the same book different physical chemical biological sensors and MEMS technologies suitable for smart sensors creation The book presents the state of the art and gives an excellent opportunity to provide a systematic in depth treatment of the new and rapidly developing field of smart sensors and MEMS The volume is an excellent guide for practicing engineers researchers and students interested in this crucial aspect of actual smart sensor design

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Microsensors, MEMS, and Smart Devices Julian W. Gardner, Vijay K. Varadan, Osama O. Awadelkarim, 2001
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