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**Arturo Cuomo** 

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processes It explains the theoretical analysis of physical phenomena used by standard sensors and transducers to transform a physical value into an electrical signal The pre processing of these signals through electronic circuits amplification signal filtering and analog to digital conversion is then detailed in order to provide useful basic information Attention is then given to general complex systems Topics covered include instrumentation and measurement chains sensor modeling digital signal processing and diagnostic methods and the concept of smart sensors as well as microsystem design and applications Numerous industrial examples punctuate the discussion setting the subjects covered in the book in their practical context

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