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The devastating impacts  
of tsunamis have  
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since the Indian Ocean tsunami of 2004, the most destructive tsunami in over 400 years of recorded history. The tsunamis that occurred as a result of the

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earthquake in Japan in March 2011 further emphasized the need for detection, monitoring, and early-warning technologies. This professional reference

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is the first of its kind: it provides a globally inclusive review of the current state of tsunami detection technology and will be a much-needed

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resource for  
oceanographers and  
marine engineers working  
to upgrade and integrate  
their tsunami warning  
systems. It focuses on  
the two main tsunami

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warning systems (TWS):  
International and  
Regional. Featured are  
comparative assessments  
of detection,  
monitoring, and real-  
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technologies. The challenges of detection through remote measuring stations are also addressed, as well as the historical and scientific aspects of

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tsunamis. Offers readers  
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practical content on the  
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subject. It shows that the approximate approaches are essentially globally averaged versions of the local treatment, that in turn is covered in

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considerable detail in  
the second edition.  
Bibliography and Index  
Integrated Electronics  
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***Geophysical Year, Volume 48:  
Bibliography and Index contains  
bibliography of articles published  
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occupied nearly a decade and the***

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***data accumulated in the many scientific disciplines by workers in some 67 countries will provide material for publication for many years. The references have been assembled from information supplied by a wide variety of sources. These references have***



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***been grouped into 21 sections, of which Sections I-XIV followed the discipline grouping adopted during the IGY. Within each section references have been arranged in alphabetical order according to the name of the principal author. Anonymous***

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***articles are listed at the end of each section, again arranged in alphabetical order by title. In the scientific literature, author's names originally printed in Cyrillic symbols sometimes appear with several different spellings because of the use of***

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***different transliteration systems. In the present Bibliography an attempt has been made to achieve consistency by using the same transliteration system throughout. This book will prove useful to geophysicists and researchers who are interested in***

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***the accomplishments of the  
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turbulent flow dynamics, free shear layers, turbulent boundary layers and plumes. The modeling section focuses on topics such as eddy viscosity models, standard K-E Models, Direct

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principles involved in electrical and electronic measurement processes. It also explains the stages involved in data acquisition systems for acquiring, manipulating, processing, storing, displaying and

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interpreting the sought-for data. The principal instruments presented in this book include cathode ray oscilloscope (CRO), analyzers, signal generators, oscillators, frequency synthesizers,

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sweep generators, function generators and attenuators. Besides, the book covers several laboratory meters such as phase meters, frequency meters, Q-meters, wattmeters, energy meters, power factor meters, and

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measurement bridges. Also included are a few important sensors and transducers which are used in the measurement of temperature, pressure, flow rate, liquid level, force, etc. The book also emphasizes the growing

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use of fibre optic instrumentation. It explains some typical fibre optic sensing systems including the fibre optic gyroscope. Some applications of optical fibre in biomedical area are described as well. The book

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is intended for a course on  
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*recent years thanks to  
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areas. Principles,  
design and applications  
of such state-of-the-art  
instrumentation schemes*



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*form the subject matter  
of this book. Through  
representative examples,  
the basic building  
blocks of  
instrumentation schemes  
are identified and each*

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*of these building blocks  
discussed in terms of  
its design and interface  
characteristics. The  
common generic schemes  
synthesized with such  
building blocks are*

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*dealt with subsequently.  
This forms the scope of  
Part I. The focus in  
Part II is on  
application.*

*Displacement and allied  
instrumentation, force*

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*and allied  
instrumentation and  
process instrumentation  
in terms of temperature,  
flow, pressure level and  
other common process  
variables are dealt with*

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*separately and  
exhaustively. Despite  
the diversity in the  
sensor principles and  
characteristics and the  
variety in the  
applications and their*

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*environments, it is possible judiciously to carve out broad areas of application for each type of sensor and the instrumentation built around it. The last*

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*chapter categorises  
instrumentation schemes  
according to their  
different levels of  
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especially at involved*

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*complexity levels - are  
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