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Presenting the use of photonics  
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mechanics, this book provides a state-of-the-art review of this active and rapidly growing field. It serves as an invaluable resource for readers to explore the current status and includes a wealth of information on the essential

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principles and methods. It provides a substantial background in a concise and simple way to enable physicists and engineers to assess, analyze and implement experimental systems needed to solve their specific measurement

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problems.

The use of the wavelet transform to analyze the behaviour of the complex systems from various fields started to be widely recognized and applied successfully during the last few

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decades. In this book some advances in wavelet theory and their applications in engineering, physics and technology are presented. The applications were carefully selected and grouped in five main sections - Signal

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Processing, Electrical Systems, Fault Diagnosis and Monitoring, Image Processing and Applications in Engineering. One of the key features of this book is that the wavelet concepts have been described from a point of view that

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**In 1912 Victor Franz Hess made the revolutionary discovery that ionizing radiation is incident upon the Earth from outer space. He showed with ground-based and balloon-borne**

**detectors that the intensity of the radiation did not change significantly between day and night. Consequently, the sun could not be regarded as the sources of this**

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**radiation and the question of its origin remained unanswered. Today, almost one hundred years later the question of the origin of the cosmic radiation still remains a mystery. Hess'**

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**discovery has given an enormous impetus to large areas of science, in particular to physics, and has played a major role in the formation of our current understanding of**

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**universal evolution. For example, the development of new fields of research such as elementary particle physics, modern astrophysics and cosmology are direct**

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**consequences of this discovery. Over the years the field of cosmic ray research has evolved in various directions: Firstly, the field of particle physics that was initiated by the**

**discovery of many so-called elementary particles in the cosmic radiation. There is a strong trend from the accelerator physics community to reenter the field of cosmic ray physics,**

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**now under the name of  
astroparticle physics.  
Secondly, an important  
branch of cosmic ray  
physics that has rapidly  
evolved in conjunction with  
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**the low energy portion of the cosmic ray spectrum. Thirdly, the branch of research that is concerned with the origin, acceleration and propagation of the cosmic**

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**energy gamma ray and neutrino astronomy. In addition, high-energy neutrino astronomy may soon initiate as a likely spin-off neutrino tomography of the Earth and thus open a**

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**unique new branch of geophysical research of the interior of the Earth. Finally, of considerable interest are the biological and medical aspects of the cosmic radiation because of**

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**it ionizing character and the inevitable irradiation to which we are exposed. This book is a reference manual for researchers and students of cosmic ray physics and associated**

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**fields and phenomena. It is not intended to be a tutorial. However, the book contains an adequate amount of background materials that its content should be useful to a broad**

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**community of scientists and professionals. The present book contains chiefly a data collection in compact form that covers the cosmic radiation in the vicinity of the Earth, in the**

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**Earth's atmosphere, at sea level and underground. Included are predominantly experimental but also theoretical data. In addition the book contains related data, definitions and**



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