



Lightning: Physics and Effects

By Vladimir A. Rakov, Martin A. Uman

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This is the first book to cover essentially all aspects of lightning, including lightning physics, lightning protection, and the interaction of lightning with a variety of objects and systems as well as with the environment. Accessible to the technical non-expert, it is addressed to anyone interested in lightning and its effects.

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Editorial Review

Review

"Lightning Physics and Effects is not a lightning book; it is a lightning encyclopedia. Rarely in the history of science has one contribution covered a subject with such depth and thoroughness as to set the enduring standard for years, perhaps even decades, to come...The overall quality of the printing is superb; the figures are excellent, and the Plate Section presents six classic pages of photographs and figures." EOS

"...this will be one of the definitive books on lightning for several years to come. The book should be in the library of anybody working on lightning and its effects, and will certainly be of value to students and researchers in the atmospheric sciences as a textbook, detailed reference and bibliographic source." Weather

"This excellent book discusses all aspects of lightning noted on Earth and the other solar planets.... An all-encompassing book." Choice

"A great deal of information on lightning and lightning protection." Physics Today

"Rakov and Uman's encyclopedic work will be extremely useful for specialists as a rich source of factual and bibliographic information." Physics Today

"This book is clearly the most complete compilation of material on the physics and effects of lightning that exists today. It is well-written, and I expect that it will be an important reference for both specialists and nonspecialists alike in future years." American Meteorological Society, E. Philip Krider

"...a very useful reference book not only for people interested in lightning and thunder, due to the extensive list of references, but also for researchers and scientists working on high-voltage engineering and nonlinear systems, because the extensive review of various observations also provides guidance for further future investigations." - IEEE Circuits and Devices Magazine

About the Author

Vladimir A. Rakov is a professor in the Department of Electrical and Computer Engineering at the University of Florida. He was previously Director of the Lightning Research Laboratory at Tomsk Polytechnical University, Russia.

Martin A. Uman was the co-founder and President of Lightning Location and Protection, Inc. (LLP) and is now a professor and Chair of the Department of Electrical and Computer Engineering at the University of Florida.

Users Review

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Russell Bussey:

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