



The Lightning Flash (Iet Power and Energy)

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The Lightning Flash (Iet Power and Energy) From The Institution of Engineering and Technology

With contributions from today's leading lightning engineers and researchers, this updated 2nd edition of Vernon Cooray's classic text, *The Lightning Flash* provides the reader with an essential introduction to lightning and its impact on electrical and electronic equipment.

The Lightning Flash, 2nd edition is an updated and much-expanded book of the core title in our trio of lightning books (*The Lightning Flash*, *Lightning Electromagnetics* and *Lightning Protection*) by the highly-regarded author, Vernon Cooray.

Providing the reader with a thorough background into almost every aspect of lightning and its impact on electrical and electronic equipment, this new edition is updated throughout and features eight new chapters that bring the science up to date.

This edition offers 8 new chapters with content ranging from basic discharge processes in air through transient electromagnetic field generation and interaction with overhead lines and underground cables, to lightning protection and testing techniques.

New topics in this edition include:

- discussions of high-speed video recordings of lightning
- rocket-and-wire triggered lightning experiments
- tower initiated lightning discharges
- upper atmospheric electrical discharges
- attachment of lightning flashes to grounded structures
- energetic radiation from thunderstorms and lightning
- global lightning nitrogen oxides production
- lightning and global temperature change



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Editorial Review

Review

"I thought Dr. Cooray's book was well laid out. As a meteorologist, there is plenty to learn from it. One of the major strengths of the book is that it appeals to many fields in which lightning is an issue. This allows the reader to see how various fields contribute to lightning research. I would highly recommend this book to anyone who is involved with lightning, not just in meteorology, but also electronics and various areas of engineering." (David Moran, Meteorologist/Weather Producer/Partner)

About the Author

Vernon Cooray is a leading Professor of lightning research at Uppsala University where his research interests include experimental and theoretical aspects of electromagnetic compatibility, electromagnetic wave propagation, lightning physics, lightning protection and the physics of electrical discharges. He is the vice president of the scientific committee of the International Conference on Lightning Protection and the editor-in-chief of the Journal of Lightning Research. He has published more than 270 scientific articles on lightning and electrical discharges including Lightning Electromagnetics (2012) and Lightning Protection (2009).

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