



## The Lightning Flash (let Power and Energy)

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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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