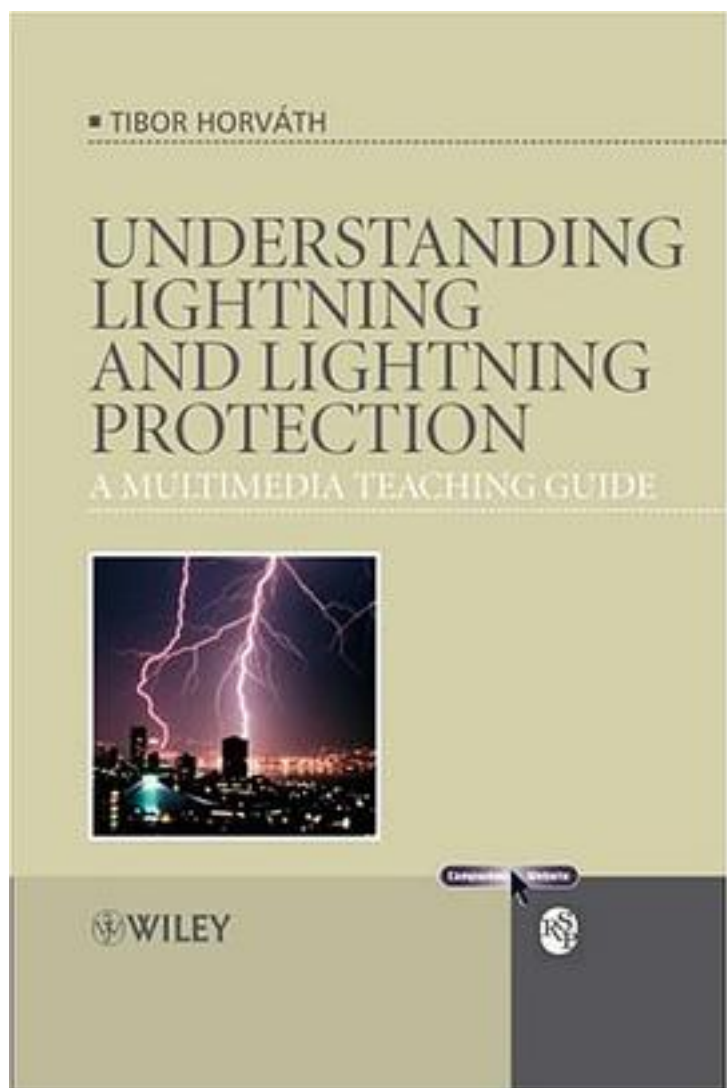


# Understanding Lightning and Lightning Protection



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The advent of complex intelligent structures and low-voltage electronic installations within buildings requires increasingly sophisticated lightning protections techniques. As a multimedia book, Understanding Lightning and Lightning Protection is a unique, interactive self-teaching tool that provides an in-depth understanding of lightning protection. Understanding Lightning and Lightning Protection helps the reader to understand the propagation of waves within complex intelligent structures within buildings, and the operation of systems designed to protect these structures. It also comments on proper human behaviour during a lightning thunderstorm. Accompanied by a web-based animation program <http://www.wiley.com/go/horvath> Shows the fundamental processes of the lightning phenomenon, and helps the reader to understand the measures of protection against lightning damage. Offers a new theory and calculation method to estimate the efficiency of lightning air termination systems, which helps to evaluate the residual risk of the lightning protection system. Examines the propagation of waves and the associated protection of intelligent systems against lightning electromagnetic impulses. This interactive teaching tool is designed for senior undergraduate and postgraduate students in electrical engineering, construction, physics and meteorology. It will also provide a valuable resource for practitioners within electric power distribution, electronics, informatics & construction safety.

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