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Descrizione fisica	1 online resource (XIII, 330 p. 168 illus., 75 illus. in color.)
Collana	Lecture Notes in Electrical Engineering ; ; Volume 780
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Soggetti	Lightning protection Lightning
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Lightning, the Science -- Lightning Detection and Warning -- Risk Assessment for Lightning Protection -- Protection of Buildings and Structures -- Protection of Low Voltage Equipment and Systems -- Lightning Protection of High-Risk Installations: Petrochemical Plants -- Protection of Selected Cases: Pv Systems, Wind Turbines and Railway Systems -- Lightning Injury: Occurrence and Medical Treatment -- Lightning: Public Concepts and Safety Education -- Economic, Technical and human implications of Lightning Protection -- Frontiers in Lightning Research and Opportunities for Scientists from Developing Countries.
Sommario/riassunto	This book highlights the essential theoretical and practical aspects of lightning, lightning protection, safety and education. Additionally, several auxiliary topics that are required to understand the core themes are also included. The main objective of the contents is to enlighten the scientists, researchers, engineers and social activists (including policy makers) in developing countries regarding the key information related to lightning and thunderstorms. A majority of developing countries are in tropics where the lightning characteristics are somewhat different from those in temperate regions. The housing structures and power/communication networks, and human behavioural patterns(that depends on socio-economic parameters) in these countries are also different from those in the developed world. As the existing books on

similar themes address only those scenarios in developed countries, this book serves a vast spectrum of readership in developing world who seek knowledge in the principles of lightning and a practical guidance on lightning protection and safety education.

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