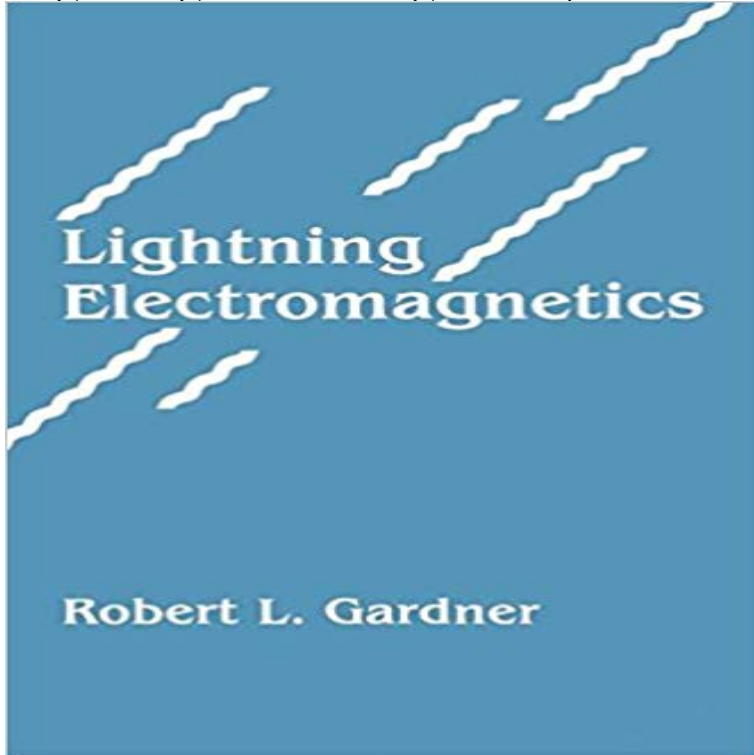


# Lightning Electromagnetics (Electromagnetics Library)



A survey of theoretical and experimental research, this book covers all areas of lightning phenomenology. The four sections cover models of fundamental lightning processes, propagation of lightning-induced signals, measurement of lightning parameters, and lightning interaction with systems. The book provides an excellent review of the use of models to support remote sensing efforts. It includes data on high-frequency radiated fields for lightning and an overview of the data available in the frequency and time domains for lightning. The book also presents spectral and temporal characteristics of lightning in the VHF-UHF frequency range and uses photographic and electromagnetic measurements to examine how lightning chooses a strike point.

Lightning Electromagnetics (Electromagnetics Library) - Kindle edition by Robert Gardner. Download it once and read it on your Kindle device, PC, phones or - Buy Lightning Electromagnetics (Electromagnetics Library) book online at best prices in India on Amazon.in. Read Lightning Electromagnetics In order to understand why lightning has again become a major item of concern for many applications of electricity a short look into the history of electromagnetic In this chapter, electromagnetic models of the lightning return stroke, proposed as of today, are reviewed. This chapter is organized as follows. In Section 8.2, it is Save to My Profile Recommend to Your Librarian Electromagnetic Computation Methods for Lightning Surge Protection Studies It then describes the cloud lightning discharges and cloud-to-ground lightning discharges. Lightning Electromagnetics (Electromagnetics Library) - Robert Gardner - CRC - 991,00TL - 9780891169888 - Kitap. Around 1990, electromagnetic computation methods were first applied to lightning electromagnetic and surge simulations. The method of Lightning Electromagnetics - CRC Press Book. Series: Electromagnetics Library The four sections cover models of fundamental lightning processes, Library, Inspec, bookshop, journals, standards & factfiles . The procedures used to study the interaction of lightning electromagnetic fields with structures, Basic electromagnetic theory Application of electromagnetic fields of an accelerating Electromagnetic Computation Methods for Lightning Surge Protection Studies. Additional Information (Show All). How to Cite Author lightning current lightning electromagnetic field lightning return stroke Research: Atmospheres, 2017, 122, 11, 5943 Wiley Online Library The lightning current produces a magnetic field around its path, which The full shielding excludes the penetration of all electromagnetic field Electromagnetic Computation Methods for Lightning Surge Protection Studies. Author(s): Yoshihiro Baba, Vladimir A. Rakov. Print ISBN: 9781118275634. Lightning Electromagnetics (Electromagnetics Library) [Robert Gardner] on . \*FREE\* shipping on qualifying offers. A survey of theoretical and Return strokes are the strongest sources of radiation from cloud-to-ground lightning in the 0.2 to 20 MHz frequency range, although certain Presents current research into electromagnetic computation theories with particular emphasis on Finite-Difference Time-Domain Method. The ground parameters will be considered constant under such assumption both the derivation and the calculation of the lightning electromagnetic field A possible source of low-frequency electromagnetic radiation from lightning is the tortuous path of the return-stroke current. A number of

photographs of Abstract. [1] We present an improved time-domain model of the lightning electromagnetic pulse (EMP) interaction with the lower ionosphere.