
Description: This book surveys some of the techniques available to protect low-voltage electrical and electronic equipment and systems from lightning strikes and other power surges. The book examines the basic discharge processes in air and their effects, through transient electromagnetic field generation and interaction with overhead lines and underground cables. Attention is paid to the use of models for lightning protection and the book focuses on protection techniques based on modelled lightning protection zones. This is then logically developed in a major section on the practical components and applications of protective measures and systems, as well as testing techniques. These are placed in the context of current IEC and VDE standards. The book is highly illustrated with a vast number of photographs as well as system diagrams and tabular matter.

Contents:
- Chapter 1: Introduction
- Chapter 2: Damage due to lightning and surges
- Chapter 3: Origin and effect of surges
- Chapter 4: Protective measures, standards
- Chapter 5: Components and protective devices: construction, effect and application
- Chapter 6: Application in practice: Some examples
- Chapter 7: Prospects

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