(PREVIEW)

Indian Standard

ELECTRICAL INSULATING MATERIALS — DETERMINATION OF THE EFFECTS OF IONIZING RADIATION

PART 1 RADIATION INTERACTION AND DOSIMETRY

1 Scope and object

This part of IEC 544 deals broadly with the aspects to be considered in evaluating the effects of ionizing radiation on all types of organic insulating materials. It also provides, for X-rays, γ-rays, and electrons, a guide to dosimetry terminology, methods of determining exposure and absorbed dose, and methods of calculating absorbed dose.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 544-2: 1991. Guide for determining the effects of ionizing radiation on insulating materials – Part 2: Procedures for irradiation and test
IEC 544-4: 1985 Guide for determining the effects of ionizing radiation on insulating materials – Part 4: Classification system for service in radiation environments