

Abstract

Introduction to Multipactor Discharge

Rami Kishek

University of Maryland

Multipactor is a vacuum discharge based on secondary electron emission, and is widely seen in a variety of accelerator, microwave, and space-borne systems. This course will present an overview of the current knowledge on multipactor and relevant literature. A basic theoretical model of multipactor will be presented, enabling basic calculations. More advanced approaches will be discussed, along with a brief review of experimental and computational approaches.