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Conditions Abstract — The concept of surface impedance boundary condition (SIBC) is first reviewed and then followed by a discussion of a class of flexible SIBCs based on power series expansion. The order of the SIBC can be selected by the user to fit the application.

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condition that is applicable for a single frequency and a dispersive surface impedance boundary condition that is applicable over a large frequency bandwidth and range of conductivities. The dispersive surface impedance includes frequency variations which

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tangential components of the electric and magnetic fields (or the normal components and their normal derivatives) via a surface impedance which is a function only of the electromagnetic properties of the material.

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use the Impedance boundary condition, which treats any material "behind" the boundary as being infinitely large. From the point of view of the electromagnetic wave, this is true,...

Modeling Metallic Objects in Wave

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Electromagnetics Problems

The use of the impedance boundary condition (IBC) provides a useful means of treating the problem of scattering by a material object and rough surfaces. A systematic development of the subject is presented. Alternative forms of the

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IBC are given and their range of validity is discussed.

On the impedance boundary condition - ScienceDirect Abstract. Surface impedance formalism permits to reduce the discretization volume in a finite

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difference time domain (FDTD) code. The method based on the definition of surface impedances for plane waves at horizontal or vertical polarizations, is introduced in fdtd algorithm, to model interfaces between two media.

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Surface impedance boundary conditions at oblique incidence ... surface of the earth [2]. Since then, surface impedance boundary conditions have seen a steady increase in applications and acceptance and the development of new types and new methods of

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computation. The application to scattering and propagation of electromagnetic waves has

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Summary. In short, impedance

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boundary conditions allow one to replace a complex structure with an appropriate impedance relationship between the electric and magnetic fields on the surface of the object. This simplifies the solution of the problem considerably, allowing one to ignore the complexity of the

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Therefore, the relation in (1) may be used as a surface impedance boundary condition since it

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contains all the necessary information about the field distribution inside the conductor.

Eq. (1) however comes with a set of assumptions under which it is valid. First, we assumed a high loss tangent ($\tan \delta \gg 1$).

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Surface Impedance in the Two-Fluid Model. In a superconductor, a time-dependent current will be carried by the Cooper pairs (superfluid component) and by the unpaired electrons (normal component) 0 2

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Conventionally, the impedance boundary conditions (IBCs) are

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widely used to simplify the mathematical and numerical complexities in the solution of scattering problems in electromagnetic theory and have been the subject of several research activities.

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