

## عنوان مقاله:

New Definition of Shielding Effectiveness for Perforated Enclosures Loaded with Conducting Objects

## محل انتشار:

دومین کنفرانس بین المللی مهندسی برق (سال: 1396)

تعداد صفحات اصل مقاله: 5

## نویسندگان:

Ramin Hesarian - *School of Electrical and Computer Engineering, University of Tehran, Tehran, Iran*

Hamid Reza Karami - *Department of Electrical Engineering, Bu Ali Sina University, Hamedan, Iran*

## خلاصه مقاله:

A new definition of shielding effectiveness (SE) for enclosures with apertures and conducting objects is reported herein in which the SE parameter is calculated for the whole enclosure space. The conducting objects can vary from high frequency printed circuit boards (PCBs) to simple metal plates used as partitions. In this paper, the SE parameter is considered as a three dimensional (3-D) parameter which improves the understanding of the whole SE phenomenon. In addition, an enclosure loaded with a microstrip transmission line (MTL) is studied to illustrate the effect of perforated metallic shields on electromagnetic interference (EMI) generated by PCBs

## کلمات کلیدی:

metallic enclosures, shielding effectiveness (SE), loaded metallic enclosures, conducting objects, 3-D shielding effectiveness SE

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/698695>

