Abstracts

Dosimetry of Occupational Exposure to RF Radiation: Measurements and Methods (Short Papers)

S. Tofani and G. Agnesod. "Dosimetry of Occupational Exposure to RF Radiation: Measurements and Methods (Short Papers)." 1987 Transactions on Microwave Theory and Techniques 35.6 (Jun. 1987 [T-MTT]): 594-597.

Workers engaged in the operation of RF industrial devices are exposed to electromagnetic radiation in the near-field zone that is characterized by high spatial and temporal gradients. The present paper is concerned with measurement methods and data analyses which allow the evaluation of the electromagnetic field exposure of the operator together with the SAR induced by near-field exposure accounting for the spatial and temporal variations. These methods are applied to the theoretical dosimetry of the occupational exposure to RF radiation emitted by 27.12-MHz plastic sealers. The data obtained are compared with those deducible through a conventional wide-band isotropic field meter.

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