

1. Record Nr.	UNISA996574946403316
Titolo	63195-2-2022 - IEC/IEEE International Standard . Part 2 Computational procedure : Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) // IEEE
Pubbl/distr/stampa	New York, NY : , : IEEE, , 2022
ISBN	1-5044-8446-0
Descrizione fisica	1 online resource (154 pages)
Disciplina	621.3
Soggetti	Frequency response (Dynamics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>This document specifies computational procedures for conservative and reproducible computations of power density (PD) incident to a human head or body due to radiofrequency (RF) electromagnetic field (EMF) transmitting devices. The computational procedures described are finite-difference time-domain (FDTD) and finite element methods (FEM), which are computational techniques that can be used to determine electromagnetic quantities by solving Maxwell's equations within a specified computational uncertainty. The procedures specified here apply to exposure evaluations for a significant majority of the population during the use of hand-held and body-worn RF transmitting devices. The methods apply to devices that can feature single or multiple transmitters or antennas, and that can be operated with their radiating part or parts at distances up to 200 mm from a human head or body. This document can be employed to determine conformity with any applicable maximum PD requirements of different types of RF transmitting devices used in close proximity to the head and body, including those combined with other RF transmitting or non-transmitting devices or accessories (e.g. belt-clip), or embedded in garments. The overall applicable frequency range of these protocols and procedures is from 6 GHz to 300 GHz. The RF transmitting device categories covered in this document include but are not limited to</p>

mobile telephones, radio transmitters in personal computers, desktop and laptop devices, and multi-band and multi-antenna devices. The procedures of this document do not apply to PD evaluation of electromagnetic fields emitted or altered by devices or objects intended to be implanted in the body.
