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Titolo	Journal of GXP compliance
Pubbl/distr/stampa	Royal Palm Beach, FL, : Institute of Validation Technology
ISSN	2150-6590
Disciplina	353.9/97/097305
Soggetti	Pharmacy - Law and legislation - United States Medical instruments and apparatus industry - Law and legislation - United States Food law and legislation - United States Pharmaceutical Preparations - standards Clinical Trials as Topic - standards Drug and Narcotic Control - legislation & jurisprudence Equipment and Supplies - standards Quality Control Food law and legislation Medical instruments and apparatus industry - Law and legislation Pharmacy - Law and legislation Periodical Periodicals. United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed

2. Record Nr.	UNINA9910416118703321
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Titolo	Brain and Human Body Modeling 2020 : Computational Human Models Presented at EMBC 2019 and the BRAIN Initiative® 2019 Meeting // edited by Sergey N. Makarov, Gregory M. Noetscher, Aapo Nummenmaa
Pubbl/distr/stampa	Springer Nature, 2021 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-45623-4
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Descrizione fisica	1 online resource (XI, 407 p. 223 illus., 199 illus. in color.)
Classificazione	MED003040TEC008010TEC059000
Disciplina	610.28
Soggetti	Biomedical engineering Electronic circuits Biomedical Engineering and Bioengineering Biomedical Engineering/Biotechnology Circuits and Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Tumor Treating Fields Dosimetry and Treatment Planning -- A Theory of Mechanisms Underlying 200 kHz AC Electric Fields Effects on Tumor Cell Structures -- A thermal study of Tumor Treating Fields for glioblastoma therapy -- Improving Tumor Treating Fields with Skull Remodeling Surgery. Surgery Planning and Treatment Evaluation with Finite Element Methods -- A Computational FEM Parcellated-Brain Model for Electric Field Analysis in Transcranial Direct Current Stimulation -- Computer Model of Electroconvulsive Therapy with Tractography Analysis -- Personalization of multi-electrode setups in tCS: methods and advantages -- Solving High-Resolution Forward Problems for Extra- and Intracranial Neurophysiological Recordings Using Boundary Element Fast Multipole Method -- Modeling Primary Fields of TMS Coils with the Fast Multipole Method -- Functional Requirements of Small- and Large-Scale Neural Circuitry Connectome Models -- A miniaturized ultra-focal magnetic stimulator and its preliminary application to the peripheral nervous system --

Modelling studies of non-invasive electric and magnetic stimulation of the spinal cord -- Simplifying the Numerical Human Model with k-means Clustering Method -- Using Anatomical Human Body Model for FEM SAR Simulation of a 3T MRI System -- RF-Induced Unintended Stimulation for Implantable Medical Devices in MRI.

Sommario/riassunto

This open access book describes modern applications of computational human modeling in an effort to advance neurology, cancer treatment, and radio-frequency studies including regulatory, safety, and wireless communication fields. Readers working on any application that may expose human subjects to electromagnetic radiation will benefit from this book's coverage of the latest models and techniques available to assess a given technology's safety and efficacy in a timely and efficient manner. Describes computational human body phantom construction and application; Explains new practices in computational human body modeling for electromagnetic safety and exposure evaluations; Includes a survey of modern applications for which computational human phantoms are critical.
