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Microwave Tomography

Global Optimization, Parallelization and
Performance Evaluation

 Springer

Microwave Tomography Global Optimization Parallelization And Performance Evaluation

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Desell, Ali Ashtari**



Microwave Tomography Global Optimization Parallelization And Performance Evaluation:

Microwave Tomography Sima Noghanian,Abas Sabouni,Travis Desell,Ali Ashtari,2014-07-08 This book provides a detailed overview on the use of global optimization and parallel computing in microwave tomography techniques The book focuses on techniques that are based on global optimization and electromagnetic numerical methods The authors provide parallelization techniques on homogeneous and heterogeneous computing architectures on high performance and general purpose futuristic computers The book also discusses the multi level optimization technique hybrid genetic algorithm and its application in breast cancer imaging

Computational Methods for Electromagnetic Inverse Scattering Xudong Chen,2018-03-20 A comprehensive and updated overview of the theory algorithms and applications of for electromagnetic inverse scattering problems Offers the recent and most important advances in inverse scattering grounded in fundamental theory algorithms and practical engineering applications Covers the latest most relevant inverse scattering techniques like signal subspace methods time reversal linear sampling qualitative methods compressive sensing and noniterative methods Emphasizes theory mathematical derivation and physical insights of various inverse scattering problems Written by a leading expert in the field

Parameter Estimation of Nonlinear Random Medium by Scattered Electromagnetic Fields Manisha Khulbe,Harish Parthasarathy,2023-10-16 This book is on the nonlinear random medium analysis that includes subtopics of terahertz imaging inverse scattering plasmonics quantum optics communication laser modes and terahertz photonic antennas Here in this book a mathematical framework is developed to analyze the impact of dimensions and chemical potential on nano antenna channels

Microwave Imaging Methods and Applications Matteo Pastorino,Andrea Randazzo,2018-06-30 *Microwave Imaging Methods and Applications* provides practitioners and researchers with a complete overview of the latest and most important noninvasive and nondestructive techniques for inspecting structures and bodies by using microwaves Placing emphasis on applications the book considers many areas from medical imaging and security to industrial engineering and subsurface prospection For each application readers are presented with the objectives of the inspection and related challenges Moreover this groundbreaking resource details computational methods that can be used to solve inverse problems related to specific applications Including clear examples or the most significant practical results this forward looking reference focuses on systems that have been recently developed Professionals gain the knowledge needed to compare imaging methods used in different applications and develop new uses of imaging apparatuses and systems

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