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Autor: Furati / Nashed /Hasan

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This volume centers on the links between mathematics and the physical world. It first explores future challenges of mathematical technology, offers a wide-ranging definition of industrial mathematics, and explains the mathematics of type-II superconductors. After lucid discussions on theoretical and applied aspects of wavelets, the book presents classical and fractal methods for physical problems, including a fractal approach to porous media textures and using MATLAB® to model chaos in the motion of a satellite. The final section surveys recent trends in variational methods, focusing on areas such as elliptic inverse problems, sweeping processes, and the BBKY hierarchy of quantum kinetic equations.