

OXFORD LECTURE SERIES IN MATHEMATICS
AND ITS APPLICATIONS - 37

Singular Elliptic Problems

Bifurcation and Asymptotic Analysis

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Singular Elliptic Problems: Bifurcation & Asymptotic Analysis

Marius Ghergu

This booklet offers a finished advent to the mathematical idea of nonlinear difficulties defined by means of singular Singular Elliptic Problems: Bifurcation & Asymptotic Analysis elliptic equations. There are rigorously analyzed logistic sort equations with boundary blow-up strategies and generalized Lane-Emden-Fowler equations or Gierer-Meinhardt structures with singular nonlinearity in anisotropic media. those nonlinear difficulties seem as mathematical versions in a variety of branches of Physics, Mechanics, Genetics, Economics, Engineering, and they're additionally suitable in Quantum Physics and Differential Geometry. one of many major reasons of this quantity is to infer decay charges for common periods of strategies when it comes to estimates Singular Elliptic Problems: Bifurcation & Asymptotic Analysis of specific problems. a lot of the fabric incorporated during this quantity is dedicated to the asymptotic research of suggestions and to the qualitative research of comparable bifurcation problems. Numerical approximations illustrate many summary result of this volume. a scientific description of the main proper singular phenomena defined in those lecture notes contains lifestyles (or nonexistence) of solutions, unicity or multiplicity properties, bifurcation and asymptotic analysis, and optimum regularity. the strategy of presentation should still attract readers with varied backgrounds in useful research and nonlinear partial differential equations. All chapters contain distinct heuristic arguments supplying thorough motivation of the learn built afterward within the text, in dating with concrete tactics Singular Elliptic Problems: Bifurcation & Asymptotic Analysis bobbing up in utilized sciences. The ebook contains an in depth bibliography and a wealthy index, hence making an allowance for speedy orientation one of the big number of literature at the mathematical conception of nonlinear singular phenomena

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