



# **Topological Nonlinear Analysis II: Degree, Singularity and variations (Progress in Nonlinear Differential Equations and Their Applications)**

*Michele Matzeu, Alfonso Vignoli*

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The main purpose of the present volume is to give a survey of some of the most significant achievements obtained by topological methods in nonlinear analysis during the last three decades. It is intended, at least partly, as a continuation of *Topological Nonlinear Analysis: Degree, Singularity and Variations*, published in 1995. The survey articles presented are concerned with three main streams of research, that is topological degree, singularity theory and variational methods. They reflect the personal taste of the authors, all of them well known and distinguished specialists. A common feature of these articles is to start with a historical introduction and conclude with recent results, giving a dynamic picture of the state of the art on these topics. Let us mention the fact that most of the materials in this book were presented by the authors at the "Second Topological Analysis Workshop on Degree, Singularity and Variations: Developments of the Last 25 Years," held in June 1995 at Villa Tuscolana, Frascati, near Rome. Michele Matzeu Alfonso Vignoli Editors

**Topological Nonlinear Analysis II Degree, Singularity and Variations Classical Solutions for a Perturbed N-Body System** Gianfausto Dell'Antonio O. Introduction In this review I shall consider the perturbed N-body system, i.e., a system composed of N point bodies of masses  $m_1, \dots, m_N$ , described in cartesian coordinates by the system of equations (0.1) where  $f^k_{k,m} = -\ell^{-m}$   $m = 1, 2, 3$ .

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