Título: Sign-Changing Critical Point Theory

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Precio: $1741.50

Editorial:

Año: 2009

Tema:

Edición: 1ª

Sinopsis

ISBN: 9780387766577

Many nonlinear problems in physics, engineering, biology, and social sciences can be reduced to finding critical points of functionals. While minimax and Morse theories provide answers to many situations and problems on the existence of multiple critical points of a functional, they often cannot provide much-needed additional properties of these critical points. Sign-changing critical point theory has emerged as a new area of rich research on critical points of a differentiable functional with important applications to nonlinear elliptic PDEs.