

## NONTRIVIAL SOLUTIONS TO INTEGRAL AND DIFFERENTIAL EQUATIONS

GIOVANNI ANELLO

Department of Mathematics  
University of Messina  
98166 S. Agata, Messina, Italy  
E-mail: anello@dipmat.unime.it

**Abstract.** This survey collects some recent results concerning the existence and multiplicity of nontrivial solutions for nonlinear problems by using variational methods.

**Key Words and Phrases:** Nonzero solution, weak solution, strong solution, multiple solutions, Hammerstein nonlinear equation, elliptic nonlinear equation, Dirichlet problem, variational methods, compact operator.

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