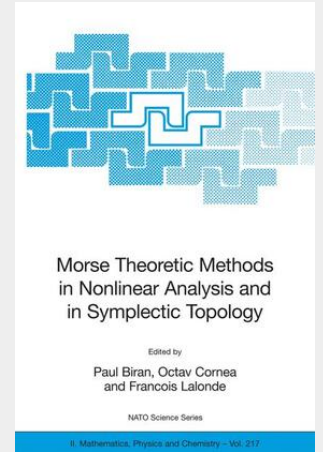


## Morse Theoretic Methods in Nonlinear Analysis and in Symplectic Topology

The papers collected in this volume are contributions to the 43rd session of the Séminaire de mathématiques supérieures (SMS) on "Morse Theoretic Methods in Nonlinear Analysis and Symplectic Topology." This session took place at the Université de Montréal in July 2004 and was a NATO Advanced Study Institute (ASI). The aim of the ASI was to bring together young researchers from various parts of the world and to present to them some of the most significant recent advances in these areas. More than 77 mathematicians from 17 countries followed the 12 series of lectures and participated in the lively exchange of ideas. The lectures covered an ample spectrum of subjects which are reflected in the present volume: Morse theory and related techniques in finite dimensional spaces, Floer theory and its recent extensions and generalizations, Morse and Floer theory in relation to string topology, generating functions, structure of the group of Hamiltonian diffeomorphisms and related dynamical problems, applications to robotics and many others. We thank all our main speakers for their stimulating lectures and all participants for creating a friendly atmosphere during the meeting. We also thank Ms. Diane Belanger, our administrative assistant, for her help with the organization and Mr. André Montpetit, our technical editor, for his help in the preparation of the volume.



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