

## Perturbed Gradient Flow Trees and $A\hat{a}$ -algebra Structures in Morse Cohomology (Hardback)



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### **Reviews**

*This publication is definitely worth purchasing. Yes, it is actually engage in, nevertheless an amazing and interesting literature. You can expect to like just how the author write this publication.*  
**(Odie Dicki)**

## PERTURBED GRADIENT FLOW TREES AND $A\hat{a}$ -ALGEBRA STRUCTURES IN MORSE COHOMOLOGY (HARDBACK)



Springer International Publishing AG, Switzerland, 2018. Hardback. Condition: New. 1st ed. 2018. Language: English . Brand New Book. This book elaborates on an idea put forward by M. Abouzaid on equipping the Morse cochain complex of a smooth Morse function on a closed oriented manifold with the structure of an  $A\hat{a}$ -algebra by means of perturbed gradient flow trajectories. This approach is a variation on K. Fukaya's definition of Morse- $A\hat{a}$ -categories for closed oriented manifolds involving families of Morse functions. To make  $A\hat{a}$ -structures in Morse theory accessible to a broader audience, this book provides a coherent and detailed treatment of Abouzaid's approach, including a discussion of all relevant analytic notions and results, requiring only a basic grasp of Morse theory. In particular, no advanced algebra skills are required, and the perturbation theory for Morse trajectories is completely self-contained. In addition to its relevance for finite-dimensional Morse homology, this book may be used as a preparation for the study of Fukaya categories in symplectic geometry. It will be of interest to researchers in mathematics (geometry and topology), and to graduate students in mathematics with a basic command of the Morse theory.



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