

Item: 1 of 1 | [Return to headlines](#)[MSN-Support](#) | [Help Index](#)Select alternative format: [BibTeX](#) | [ASCII](#)**MR1882764 (2003b:37044)****[Hurder, Steven \(1-ILCC\)](#)****Dynamics and the Godbillon-Vey class: a history and survey. (English summary)***Foliations: geometry and dynamics* (Warsaw, 2000), 29–60, *World Sci. Publishing, River Edge, NJ*, 2002.[37C85 \(37A99 37D99 57R30\)](#)[Journal](#)[Article](#)[Doc Delivery](#)**References: 0****Reference Citations: 0****Review Citations: 0**

This is an excellent survey on the Godbillon-Vey class, which is one of the famous invariants in the theory of codimension one foliations. Beginning with the first definition and some interpretations of the Godbillon-Vey class, the author gives the development of ideas and basic results concerning the subject. There is an interesting debate about the connection between various entropies and the Godbillon-Vey class. The list of sections, which reflects the content of the survey, is the following:

1. A simple definition.
2. Structure theory.
3. Duminy's Theorem.
4. Ergodic theory.
5. Geometric entropy.
6. Exceptional minimal sets.
7. Extensions of Godbillon-Vey.
8. Tricks and treats.
9. Open questions.

The survey ends with a list of open problems.

{For the entire collection see [2002j:57001](#)}**Reviewed by** [Evgenii Zhuzhoma](#)

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