

Item: 3 of 32 | [Return to headlines](#) | [First](#) | [Previous](#) | [Next](#) | [Last](#)[MSN-Support](#) | [Help](#)Select alternative format: [BibTeX](#) | [ASCII](#)

MR1770408 (2001f:53059)**[Rovenski, V.](#)****Foliations, submanifolds, and mixed curvature.**

Geometry, 5.

J. Math. Sci. (New York) **99** (2000), *no. 6*, 1699–1787.[53C12](#) ([53C40](#) [57R30](#))

Journal

Article

Doc
Delivery

References: 0**Reference Citations: 0****Review Citations: 0**

For anyone working in the area combining foliations and Riemannian geometry, this paper is an excellent and extensive survey on the Riemannian geometry of foliations with a nonnegative mixed curvature and the geometry of submanifolds with rulings in a Riemannian space of nonnegative curvature. There are many interesting results recounted among these pages. One of my favorites is the Ferus theorem, on the largest dimension of a totally geodesic foliation with constant positive mixed curvature on a given manifold, and its generalizations. Only a handful of the many theorems described here are accompanied by a sketch of a proof. Yet, since definitions are given in full, it is possible to understand the statements of the results without having to consult the references. By the way, there are 329 listed references, where one can find fuller accounts of the material surveyed in this article as well as related topics.

{For the entire collection see [MR1770407 \(2001b:00035\)](#)}

Reviewed by [James J. Hebda](#)

© Copyright American Mathematical Society 2001, 2005