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By Jürgen Jost

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The 6<sup>th</sup> edition includes a systematic treatment of eigenvalues of Riemannian manifolds and several other additions. Also, the entire material has been reorganized in order to improve the coherence of the book.

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"This book provides a very readable introduction to Riemannian geometry and geometric analysis. ... With the vast development of the mathematical subject of geometric analysis, the present textbook is most welcome." *Mathematical Reviews*

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### Editorial Review

#### Review

From the reviews of the sixth edition:

“For readers familiar with the basics of differential geometry and some acquaintance with modern analysis, the book is reasonably self-contained ... The book succeeds very well in laying out the foundations of modern Riemannian geometry and geometric analysis. It introduces a number of key techniques and provides a representative overview of the field. This sixth edition contains a deeper study of the spectrum of the Laplace operator and its relation to the geometry of the underlying Riemannian manifold.” (M. Kunzinger, *Monatshefte für Mathematik*, Vol. 171 (3-4), September, 2013)

“The present book is the sixth edition of the author’s textbook on Riemannian geometry and geometric analysis. In general, it gives a synthesis of geometric and analytic methods in the study of Riemannian manifolds. ... the book is well written. That is why I would recommend it to specialists in mathematics or physics and especially to Ph.D. students of differential geometry.” (Miroslaw Doupovec, *Zentralblatt MATH*, Vol. 1227, 2012)

#### From the Back Cover

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#### About the Author

**Jürgen Jost** is Codirector of the Max Planck Institute for Mathematics in the Sciences in Leipzig, Germany, an Honorary Professor at the Department of Mathematics and Computer Sciences at Leipzig University, and an External Faculty Member of the Santa Fe Institute for the Sciences of Complexity, New Mexico, USA.

He is the author of a number of further Springer textbooks including *Postmodern Analysis* (1997, 2002, 2005), *Compact Riemann Surfaces* (1997, 2002, 2006), *Partial Differential Equations* (2002, 2007), *Differentialgeometrie und Minimalflächen* (1994, 2007, with J. Eschenburg), *Dynamical Systems* (2005), as well as several research monographs, such as *Geometry and Physics* (2009), and many publications in scientific journals.

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