

This book is a valuable, and indeed unique, addition to the literature and will be a standard reference. The introductory chapters are very clearly written. The authors derive many previously known results by alternative methods. This gives an independent check of these results. I know of no errors in the trees or tables and have great confidence in the general accuracy of the material presented here.

This book will be an essential part of every mathematical library.

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Elements of differentiable dynamics and bifurcation theory, by
David Ruelle. Academic Press, New York, 1989, 187 pp., \$27.50.
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About a year and a half ago at the Thom Symposium in Paris many of the talks traced their genesis to René Thom's seminar in the Bois Ste. Marie at the Institut des Hautes Etudes Scientifiques. What a wonderful seminar I thought, and recalled my own stay at the I.H.E.S. in 1969–70 and Thom's seminar that year (which was not one of the ones mentioned). Steve Smale,