Differentiable Germs and Catastrophes

By Theodor Bröcker

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2008. Paperback. Book Condition: New. 226 x 152 mm. Language: English Brand New Book ***** Print on Demand *****.These notes give a fairly elementary introduction to the local theory of differentiable mappings. Sard s Theorem and the Preparation Theorem of Malgrange and Mather are the basic tools and these are proved first. There follows a number of illustrations including: the local part of Whitney s Theorem on mappings of the plane into the plane, quadratic differentials, the Instability Theorem of Thom, one of Mather s theorems on finite determinacy and a glimpse of the theory of Toujeron. The later part of the book develops Mather s theory of unfoldings of singularities. Its application to Catastrophe theory is explained and the Elementary Catastrophes are illustrated by many pictures. The book is suitable as a text for courses to graduates and advanced undergraduates but may also be of interest to mathematical biologists and economists.

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