

Table of Contents

Foreword	vii
Part I. Basic concepts	1
1. The simplest examples	3
2. The classes Σ^I	27
3. The quadratic differential of a map	60
4. The local algebra of a map and the Weierstrass preparation theorem	72
5. The local multiplicity of a holomorphic map	84
6. Stability and infinitesimal stability	115
7. The proof of the stability theorem	133
8. Versal deformations	145
9. The classification of stable germs by genotype	157
10. Review of further results	173
Part II. Critical points of smooth functions	183
11. A start to the classification of critical points	187
12. Quasihomogeneous and semiquasihomogeneous singularities	192
13. The classification of quasihomogeneous functions	217
14. Spectral sequences for the reduction to normal forms	231
15. Lists of singularities	242
16. The determinator of singularities	258
17. Real, symmetric and boundary singularities	272
Part III. Singularities of caustics and wave fronts	285
18. Lagrangian singularities	287
19. Generating families	298
20. Legendrian singularities	310
21. The classification of Lagrangian and Legendrian singularities	325
22. The bifurcation of caustics and wave fronts	346

References	360
Further references	371
Subject Index	375