

2007

Internationale Dokumentation des kartographischen Schrifttums / International documentation of cartographical literature / Documentation internationale de la littérature cartographique. Bd. 34: 2007

1. Auflage 2012. Taschenbuch. XXII, 446 S. Paperback

ISBN 978 3 11 028421 8

Format (B x L): 15,5 x 23 cm

Gewicht: 664 g

[Weitere Fachgebiete > Geologie, Geographie, Klima, Umwelt > Geodäsie und Geoplanung > Geodäsie, Kartographie, GIS, Fernerkundung](#)

schnell und portofrei erhältlich bei

The logo for beck-shop.de features the text "beck-shop.de" in a bold, red, sans-serif font. Above the "i" in "shop" are three red dots of increasing size. Below the main text, "DIE FACHBUCHHANDLUNG" is written in a smaller, red, all-caps, sans-serif font.

**beck-shop.de**  
DIE FACHBUCHHANDLUNG

Die Online-Fachbuchhandlung [beck-shop.de](http://beck-shop.de) ist spezialisiert auf Fachbücher, insbesondere Recht, Steuern und Wirtschaft. Im Sortiment finden Sie alle Medien (Bücher, Zeitschriften, CDs, eBooks, etc.) aller Verlage. Ergänzt wird das Programm durch Services wie Neuerscheinungsdienst oder Zusammenstellungen von Büchern zu Sonderpreisen. Der Shop führt mehr als 8 Millionen Produkte.

---

## Contents

|                                                                     |           |
|---------------------------------------------------------------------|-----------|
| List of regularly evaluated journals . . . . .                      | XXI       |
| <b>A. Bibliography, Documentation, General Literature . . . . .</b> | <b>1</b>  |
| 1. Reference Tools . . . . .                                        | 1         |
| 2. Bibliographies, Catalogues . . . . .                             | 2         |
| 3. Documentation, Classifications . . . . .                         | 4         |
| 4. General Works on Cartography, Collective Writings . . . . .      | 5         |
| 5. Periodicals . . . . .                                            | 5         |
| <b>B. History of Cartography . . . . .</b>                          | <b>6</b>  |
| 1. General Features . . . . .                                       | 6         |
| 2. Regional History of Cartography . . . . .                        | 10        |
| a. The World . . . . .                                              | 10        |
| b. Oceans and Seas . . . . .                                        | 15        |
| c. Africa . . . . .                                                 | 16        |
| d. The Americas . . . . .                                           | 18        |
| e. Asia . . . . .                                                   | 21        |
| f. Australia and Pacific Islands . . . . .                          | 25        |
| g. Europe . . . . .                                                 | 26        |
| h. Polar Regions . . . . .                                          | 47        |
| i. Outer Space . . . . .                                            | 48        |
| 3. Epochs of the History of Cartography . . . . .                   | 48        |
| a. General Works . . . . .                                          | 48        |
| b. Antiquity . . . . .                                              | 49        |
| c. Middle Ages . . . . .                                            | 50        |
| d. Renaissance . . . . .                                            | 51        |
| e. Baroque . . . . .                                                | 52        |
| f. Modern Period . . . . .                                          | 53        |
| <b>C. Biographical Aspects of Cartography . . . . .</b>             | <b>55</b> |
| <b>D. Organizations and Institutions of Cartography . . . . .</b>   | <b>66</b> |
| 1. General Features . . . . .                                       | 66        |
| 2. Cartographic Societies . . . . .                                 | 68        |
| 3. Teaching and Research Institutions . . . . .                     | 70        |
| 4. Cartographic Training . . . . .                                  | 71        |
| 5. Map Producers . . . . .                                          | 73        |
| 6. Map Collections . . . . .                                        | 78        |
| 7. Events, Conferences, and Exhibitions . . . . .                   | 83        |
| 8. Legal Questions, Copyright . . . . .                             | 92        |
| <b>E. Theory of Cartography . . . . .</b>                           | <b>95</b> |
| 1. Nature and Philosophy of Cartography . . . . .                   | 95        |
| 2. Cartographic Terminology . . . . .                               | 97        |
| 3. Theoretical Foundations of Cartography . . . . .                 | 98        |

|           |                                                                             |            |
|-----------|-----------------------------------------------------------------------------|------------|
| 4.        | Graphic Foundations of Cartography . . . . .                                | 99         |
| 5.        | Surveying for Mapping . . . . .                                             | 103        |
| a.        | Geodesy, Topography . . . . .                                               | 106        |
| b.        | Photogrammetry, Remote Sensing . . . . .                                    | 118        |
| c.        | Data Collection for Thematic Maps . . . . .                                 | 131        |
| 6.        | Map Drafting and Map Design . . . . .                                       | 134        |
| a.        | Map Editing . . . . .                                                       | 134        |
| b.        | Map Types, Cartographic Methods . . . . .                                   | 136        |
| c.        | Map Scale, Sheet Layout, Sheet Numbering and Naming . . . . .               | 139        |
| d.        | Map Projection, Mathematical Cartography . . . . .                          | 139        |
| e.        | Legend, Drafting Instructions, Map Specifications, Symbol Legends . . . . . | 143        |
| f.        | Generalization . . . . .                                                    | 144        |
| g.        | Geographical Names, Toponymy . . . . .                                      | 145        |
| 7.        | Map Revision . . . . .                                                      | 147        |
| <b>F.</b> | <b>Map Production, Practical Cartography . . . . .</b>                      | <b>150</b> |
| 1.        | General Features . . . . .                                                  | 150        |
| 2.        | Traditional Reprographic Techniques . . . . .                               | 150        |
| a.        | General Features . . . . .                                                  | 150        |
| b.        | Drawing, Engraving and Scribing Techniques . . . . .                        | 151        |
| c.        | Map Lettering Techniques . . . . .                                          | 151        |
| d.        | Photographic Techniques . . . . .                                           | 151        |
| e.        | Non-Photographic Techniques . . . . .                                       | 151        |
| f.        | Reproduction and Presswork . . . . .                                        | 152        |
| 3.        | Computer-Assisted Map Techniques . . . . .                                  | 152        |
| a.        | General Features . . . . .                                                  | 152        |
| b.        | Data Acquisition and Data Storage Techniques . . . . .                      | 158        |
| c.        | Data Processing Techniques, Digital Generalization . . . . .                | 160        |
| d.        | Digital Models . . . . .                                                    | 165        |
| e.        | Data Presentation Techniques . . . . .                                      | 172        |
| <b>G.</b> | <b>Spatial Information Systems . . . . .</b>                                | <b>174</b> |
| 1.        | General Features, Graphic Data Banks . . . . .                              | 174        |
| 2.        | Geographical Information Systems (GIS) . . . . .                            | 181        |
| 3.        | Land Information Systems (LIS) . . . . .                                    | 200        |
| <b>H.</b> | <b>Topographic Cartography . . . . .</b>                                    | <b>202</b> |
| 1.        | General Features, Map Specifications . . . . .                              | 202        |
| 2.        | Maps Grouped According to Scale . . . . .                                   | 204        |
| a.        | Map Scales larger than 1:10 000 . . . . .                                   | 204        |
| b.        | Map Scales from 1:10 000 to 1:300 000 . . . . .                             | 207        |
| c.        | Map Scales smaller than 1:300 000 . . . . .                                 | 210        |
| 3.        | Content of Topographic Maps . . . . .                                       | 210        |
| a.        | Planimetry . . . . .                                                        | 210        |
| b.        | Relief . . . . .                                                            | 211        |
| <b>I.</b> | <b>Thematic Cartography . . . . .</b>                                       | <b>213</b> |
| 1.        | General Features, Map Specifications . . . . .                              | 213        |
| 2.        | Maps Grouped According to Scale . . . . .                                   | 214        |
| a.        | Map Scales larger than 1:10 000 . . . . .                                   | 214        |
| b.        | Map Scales from 1:10 000 to 1:300 000 . . . . .                             | 214        |
| c.        | Map Scales smaller than 1:300 000 . . . . .                                 | 215        |

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 3.        | Maps Grouped According to Content . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 215        |
|           | Administration 216; Agriculture 216; Archaeology 217; Astronomy 217;<br>Biology 217; Climatology and meteorology 217; Culture 218;<br>Demography 219; Ecology 220; Economics 221; Environment 221;<br>Ethnography 224; Forestry 225; Geology 226; Geomorphology 227;<br>Geophysics 228; Geoscience 228; Glaciology 228; History 229;<br>Hydrography 231; Industry 234; Land use 234; Landscape 236; Law 238;<br>Linguistics 238; Medicine 238; Military cartography 238; Mining 241;<br>Natural resources 241; Oceanography 241; Pedology 242; Planning 243;<br>Politics 244; Religion 245; Settlement 246; Sociology 254; Statistics 255;<br>Tourism 255; Traffic 257; Vegetation 260 |            |
| <b>J.</b> | <b>Atlas Cartography . . . . .</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>262</b> |
| 1.        | General Features . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 262        |
| 2.        | World Atlases, Reference Atlases . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 262        |
| 3.        | Topographic Atlases . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | —          |
| 4.        | Thematic Atlases, Planning Atlases . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 263        |
| 5.        | School Atlases . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 266        |
| 6.        | Regional Atlases . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 266        |
| 7.        | Air Photo and Satellite Image Atlases . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —          |
| <b>K.</b> | <b>Tactile Maps, Maps for the Blind . . . . .</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>—</b>   |
| <b>L.</b> | <b>Film and Computer Screen Maps . . . . .</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>271</b> |
| <b>M.</b> | <b>Map-like Representations . . . . .</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>294</b> |
| 1.        | General Features . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 294        |
| 2.        | Three-Dimensional Representations . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 294        |
| 3.        | Two-Dimensional Representations . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 296        |
| <b>N.</b> | <b>Use of Maps . . . . .</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>303</b> |
| 1.        | General Features, Accessories for Map Use . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 303        |
| 2.        | Perception, Cognitive Maps . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 309        |
| 3.        | Map Reading and Map Interpretation, Cartometry . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 311        |
| 4.        | Functions of Maps . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 313        |
|           | Cadastral mapping 313; Journalistic cartography 317; Military<br>cartography 317; Navigational mapping 319; Planning cartography 323;<br>School cartography 326; Tourist mapping 328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |
| 5.        | Maps in Other Media . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 329        |
| <b>O.</b> | <b>Regional Cartography . . . . .</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>331</b> |
| 1.        | General Features . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 331        |
| 2.        | Regions . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 331        |
| a.        | The World . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 331        |
| b.        | Oceans and Seas . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 332        |
| c.        | Africa . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 333        |
|           | Algeria 333; Benin 333; Egypt 333; Morocco 334; Namibia 334;<br>Republic of South Africa 334; Senegal 334; Tanzania 334;<br>Tunisia 334; Uganda 334                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |
| d.        | The Americas . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 334        |
|           | Argentina 335; Canada 335; Chile 336; Colombia 336; Do-<br>minican Republic 336; Guatemala 336; Haiti 336; Mexico 336;<br>United States of America 337; Uruguay 339                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |

---

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| e. | Asia . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 339 |
|    | Afghanistan 339; China 340; Hong Kong 341; India 341;<br>Indonesia 342; Iran 343; Iraq 343; Israel 343; Japan 343;<br>Jordan 345; Lebanon 345; Mongolia 345; Pakistan 345; Russian<br>Federation 345; Taiwan 348; Thailand 348; Turkey 348;<br>Vietnam 348                                                                                                                                                                                                                                                                                         |     |
| f. | Australia and the Pacific Islands . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 348 |
|    | Australia 348; New Zealand 348                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |
| g. | Europe . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 349 |
|    | Albania 351; Austria 352; Belarus 353; Belgium 353; Bosnia<br>and Herzegovina 354; Bulgaria 355; Croatia 355; Czech<br>Republic 356; Denmark 357; Estonia 357; Finland 357;<br>France 358; Germany 360; Great Britain 371; Greece 373;<br>Hungary 374; Iceland 376; Ireland 376; Italy 376; Latvia 382;<br>Lithuania 382; Macedonia 382; Malta 382; Netherlands 382;<br>Norway 386; Poland 387; Romania 389; Russian Federation 389;<br>Serbia 393; Slovakia 393; Slovenia 394; Spain 395; Sweden 396;<br>Switzerland 397; Turkey 399; Ukraine 399 |     |
| h. | Polar Regions . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 401 |
|    | Antarctica 401; Arctic 401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |
| i. | Outer Space . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 401 |
|    | Mars 402; Moon 402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |
|    | Index of Authors . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 403 |