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| 1. Record Nr. | UNISALENTO991003531919707536 |
| Autore | Popescu-Pampu, Patrick |
| Titolo | What is the genus? [e-book] / Patrick Popescu-Pampu |
| ISBN | 9783319423128 3319423126 |
| Descrizione fisica | 1 online resource (xvii, 184 pages) : illustrations |
| Collana | Lecture notes in mathematics, 0075-8434 ; 2162 |
| Classificazione | AMS 14-03 LC QA611 |
| Disciplina | 514 |
| Soggetti | Topology Mathematics - History |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | "Expanded translation by the author of the original French edition." |
| Nota di bibliografia | Includes bibliographical references and index |
| Sommario/riassunto | Exploring several of the evolutionary branches of the mathematical notion of genus, this book traces the idea from its prehistory in problems of integration, through algebraic curves and their associated Riemann surfaces, into algebraic surfaces, and finally into higher dimensions. Its importance in analysis, algebraic geometry, number theory and topology is emphasized through many theorems. Almost every chapter is organized around excerpts from a research paper in which a new perspective was brought on the genus or on one of the objects to which this notion applies. The author was motivated by the belief that a subject may best be understood and communicated by studying its broad lines of development, feeling the way one arrives at the definitions of its fundamental notions, and appreciating the amount of effort spent in order to explore its phenomena |