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| Edizione | [2nd rev. and extended ed.] |
| Descrizione fisica | 1 online resource (572 p.) |
| Collana | De Gruyter studies in mathematics ; ; 5 |
| Altri autori (Persone) | ZieschangHeiner |
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| Soggetti | Knot theory<br>MATHEMATICS / Geometry / General |
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| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references (p. [367]-505) and indexes. |
| Nota di contenuto | Front matter -- Contents -- Chapter 1. Knots and Isotopies -- Chapter 2. Geometric Concepts -- Chapter 3. Knot Groups -- Chapter 4. Commutator Subgroup of a Knot Group -- Chapter 5. Fibred Knots -- Chapter 6. A Characterization of Torus Knots -- Chapter 7. Factorization of Knots -- Chapter 8. Cyclic Coverings and Alexander Invariants -- Chapter 9. Free Differential Calculus and Alexander Matrices -- Chapter 10. Braids -- Chapter 11. Manifolds as Branched Coverings -- Chapter 12. Montesinos Links -- Chapter 13. Quadratic Forms of a Knot -- Chapter 14. Representations of Knot Groups -- Chapter 15. Knots, Knot Manifolds, and Knot Groups -- Chapter 16. The 2-variable skein polynomial -- Appendix A. Algebraic Theorems -- Appendix B. Theorems of 3-dimensional Topology -- Appendix C. Tables -- Appendix D. Knot Projections 01-949 -- Back matter |
| Sommario/riassunto | This book is an introduction to classical knot theory. Topics covered include: different constructions of knots, knot diagrams, knot groups, fibered knots, characterisation of torus knots, prime decomposition of knots, cyclic coverings and Alexander polynomials and modules together with the free differential calculus, braids, branched coverings and knots, Montesinos links, representations of knot groups, surgery of 3-manifolds and knots. Knot theory has expanded enormously since the first edition of this book published in 1985. A special feature of this |

second completely revised and extended