Record Nr. UNINA9910822789503321 Autore Krieger Martin H Titolo Doing mathematics: convention, subject, calculation, analogy / / Martin H. Krieger River Edge, NJ,: World Scientific, c2003 Pubbl/distr/stampa **ISBN** 1-281-93585-9 9786611935856 981-279-548-0 Edizione [1st ed.] Descrizione fisica 1 online resource (472p.): illustrations 510 Disciplina Soggetti Mathematics - Research Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Bibliographic Level Mode of Issuance: Monograph Note generali Nota di bibliografia Includes bibliographical references (p. 401-433) and index. Nota di contenuto Convention: How Means and Variances are Entrenched as Statistics; Subject: The Fields of Topology; Appendix: The Two-Dimensional Ising Model of a Ferromagnet; Calculation: Strategy, Structure, and Tactics in Applying Classical Analysis; Analogy: A Syzygy Between a Research Program in Mathematics and a Research Program in Physics, Each of Which is Itself an Analogy; Mathematics in Concreto. Sommario/riassunto A discussion of ways of doing mathematical work. It argues that the conventions we adopt, the subject areas we delimit, what we can prove and calculate about the physical world, and the analogies that work for mathematicians - all depend on mathematics, what will work out and

what won't.