1. Record Nr. UNINA9910254087903321 Autore Hiriart-Urruty Jean-Baptiste Titolo Mathematical Tapas: Volume 1 (for Undergraduates) // by Jean-Baptiste Hiriart-Urruty Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2016 **ISBN** 3-319-42186-7 Edizione [1st ed. 2016.] Descrizione fisica 1 online resource (X, 159 p.) Collana Springer Undergraduate Mathematics Series, , 1615-2085 519.64 Disciplina Soggetti Matrix theory Algebra Mathematical analysis Analysis (Mathematics) Mathematical optimization Linear and Multilinear Algebras, Matrix Theory **Analysis** Optimization Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Chapter 1 Proposals -- Chapter 2 Hint(s) -- Chapter 3 Answer(s), Nota di contenuto Comment(s). Sommario/riassunto This book contains a collection of exercises (called "tapas") at undergraduate level, mainly from the fields of real analysis, calculus, matrices, convexity, and optimization. Most of the problems presented here are non-standard and some require broad knowledge of different mathematical subjects in order to be solved. The author provides some hints and (partial) answers and also puts these carefully chosen exercises into context, presents information on their origins, and comments on possible extensions. With stars marking the levels of difficulty, these tapas show or prove something interesting, challenge the reader to solve and learn, and may have surprising results. This first volume of Mathematical Tapas will appeal to mathematicians, motivated undergraduate students from science-based areas, and

those generally interested in mathematics.