Record Nr. UNINA9910254299603321 Autore Sarbadhikari Haimanti Titolo A Course on Basic Model Theory / / by Haimanti Sarbadhikari, Shashi Mohan Srivastava Singapore:,: Springer Singapore:,: Imprint: Springer,, 2017 Pubbl/distr/stampa **ISBN** 981-10-5098-8 Edizione [1st ed. 2017.] Descrizione fisica 1 online resource (XIX, 291 p.) 511.3 Disciplina Logic, Symbolic and mathematical Soggetti Geometry, Algebraic Number theory Mathematical Logic and Foundations Algebraic Geometry **Number Theory** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Chapter 1. Basic Introductory Concepts -- Chapter 2. Basic Introductory Nota di contenuto Results -- Chapter 3. Spaces of Types -- Chapter 4. Good Structures and Good Theories -- Chapter 5. Morley Categoricity Theorem and Forking Independence -- Chapter 6. Model Theory of Valued Fields. Sommario/riassunto This self-contained book is an exposition of the fundamental ideas of model theory. It presents the necessary background from logic, set theory and other topics of mathematics. Only some degree of mathematical maturity and willingness to assimilate ideas from diverse areas are required. The book can be used for both teaching and selfstudy, ideally over two semesters. It is primarily aimed at graduate students in mathematical logic who want to specialise in model theory. However, the first two chapters constitute the first introduction to the subject and can be covered in one-semester course to senior undergraduate students in mathematical logic. The book is also

suitable for researchers who wish to use model theory in their work.