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Autore	Cerf Raphaël
Titolo	The wulff crystal in ising and percolation models : Ecole d'Eté de Probabilités de Saint-Flour XXXIV - 2004 / / Raphaël Cerf, edited by Jean Picard
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Collana	École d'Été de Probabilités de Saint-Flour, , 0721-5363 ; ; 1878
Disciplina	530.13
Soggetti	Phase transformations (Statistical physics)
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Phase coexistence and subadditivity -- Presentation of the models -- Ising model -- Bernoulli percolation -- FK or random cluster model -- Main results -- The Wulff crystal -- Large deviation principles -- Large deviation theory -- Surface large deviation principles -- Volume large deviations -- Fundamental probabilistic estimates -- Coarse graining -- Decoupling -- Surface tension -- Interface estimate -- Basic geometric tools -- Sets of finite perimeter -- Surface energy -- The Wulff theorem -- Final steps of the proofs -- LDP for the cluster shapes -- Enhanced upper bound -- LDP for FK percolation -- LDP for Ising.
Sommario/riassunto	This volume is a synopsis of recent works aiming at a mathematically rigorous justification of the phase coexistence phenomenon, starting from a microscopic model. It is intended to be self-contained. Those proofs that can be found only in research papers have been included, whereas results for which the proofs can be found in classical textbooks are only quoted.