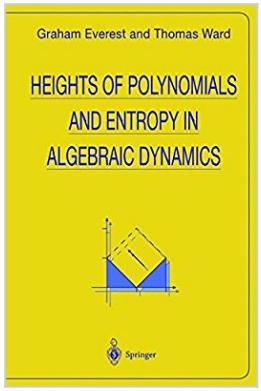

Heights of Polynomials and Entropy in Algebraic Dynamics (Universitext)

By Graham Everest, Thomas Ward

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The main theme of this book is the theory of heights as they appear in various guises. This includes a large body of results on Mahlers measure of the height of a polynomial. The authors'approach is very down to earth as they cover the rationals, assuming no prior knowledge of elliptic curves. The chapters include examples and particular computations, with all special calculation included so as to be self-contained. The authors devote space to discussing Mahlers measure and to giving some convincing and original examples to explain this phenomenon. XXXXXXX NEUER TEXT The main theme of this book is the theory of heights as it appears in various guises. To this §End.txt.Int.:, it examines the results of Mahlers measure of the height of a polynomial, which have never before appeared in book form. The authors take a down-to-earth approach that includes convincing and original examples. The book uncovers new and interesting connections between number theory and dynamics and will be interesting to researchers in both number theory and nonlinear dynamics.

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Editorial Review

Review

From the reviews:

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"This book provides an introduction to algebraic dynamical systems and their connection with number theory. This relationship is illustrated by many examples … . I recommend the reading of this interesting book, which may be accessible even for advanced undergraduate students." (Yann Bugeaud, Mathematical Reviews, Issue 2000 e)

"This unusual book is based on a course given to postgraduate students at the University of East Anglia. It could serve as a textbook or as interesting supplementary reading for a course in algebraic dynamics or elliptic curves. … the authors follow the sound pedagogical practice of giving detailed proofs of special cases and providing references to the literature for more general results." (D. W. Boyd, Zentralblatt MATH, Vol. 919, 1999)

"This monograph explores two notions of height in the context of dynamics: Mahler measure and elliptic height. … the material of the book is very well presented and the historical references, examples and exercises make it a useful text for anybody trying to get into the spirit of algebraic dynamical systems." (K. Schmidt, Monatshefte für Mathematik, Issue 3, 1999)

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