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METRIC DIOPHANTINE APPROXIMATION ON MANIFOLDS

V. I. BERNIK & M. M. DODSON

This explores Diophantine volume approximation on smooth manifolds embedded in Euclidean space, developing a coherent body of theory comparable to that of classical Diophantine approximation. In particular, the book deals Khintchine-type theorems and with the Hausdorff dimension of the associated null After setting out the necessary background material, the authors give a full discussion of Hausdorff dimension and its uses in Diophantine approximation. They employ a wide range of techniques from the number theory arsenal to obtain the and lower bounds required, upper highlighting the difficulty of some of the questions considered. The authors then go on to consider briefly the p-adic case, and conclude with a chapter on applications of metric Diophantine approximation. All researchers with an interest in Diophantine approximation will want to have this book in their personal libraries.

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