



Lectures on the Theory of Maxima and Minima of Functions of Several Variables, Vol. 2: Weierstrass Theory (Classic Reprint)

By Harris Hancock

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Lectures on the Theory of Maxima and Minima of Functions of Several Variables, Vol. 2: Weierstrass Theory In his lectures at Berlin the late Professor Weierstrass often indicated the necessity of establishing fundamental parts of the Calculus upon a more exact foundation. It has already been pointed out (Annals of Mathematics, Vols. IX., X., XI. and XII.) how the old rules and theories of the Calculus of Variations soon led to perplexities which appeared almost insurmountable. Dirichlet's Principle is found to have been established upon a weak structure, and we very soon find innumerable fallacies and difficulties when we seek to discuss in this manner Minimal Surfaces and the allied theory. These difficulties may be overcome by subjecting the problems in question to a more rigorous treatment and by giving more emphasis to their analytic formulation. In every Differential Calculus which I have seen [cf. also Pierpont, Bull. of Amer. Math. Soc., July, 1898] the Theory of Maxima and Minima is both inexact and inadequate, when several variables are treated. This subject, when made...



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