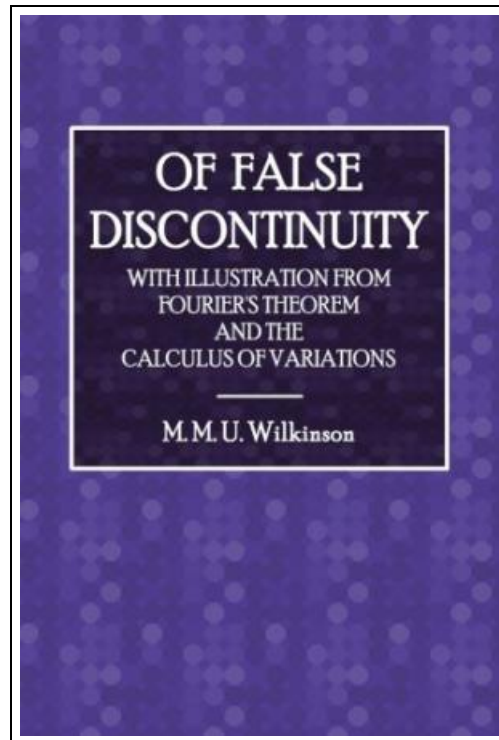# Of False Discontinuity: With Illustrations from Fourier s Theorem and the Calculus of Variations (Paperback)

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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.From the PREFACE. In this Essay I attempt to show that those problems, appertaining to the Calculus of Variations, to which the discussion of certain questions of maxima and minima naturally leads, admit, if of any, of an infinite number of solutions, and that of these solutions an infinite number are falsely discontinuous. Mathematicians seem to me to use the word discontinuity inappropriately, when they define it so that an unbroken curve coinciding throughout one portion of finite length with a circle, and throughout another portion of finite length with a straight line, is called discontinuous. Such curves cannot with correctness be called discontinuous, because, however fortuitous and apparently irregular an unbroken line be, there corresponds to it a law such that a material point constrained by it shall construct the line. In this essay I define, and endeavour to employ as I define, the terms true discontinuity, and false discontinuity. I hope by the use of these words to adhere as closely as my views will permit to the definition of discontinuity as given by previous writers. In the second chapter I endeavour to demonstrate Fourier s Theorem rigorously, and, in so doing, I think I have arrived at novel results by a method novel in many of its features. The subject I consider closely allied to the subject discussed in the rest of this essay. For an analysis of great power could replace all the methods of the Calculus of Variations by methods of Algebra and Differential Calculus operating upon series of sines and cosines, analogous to the method adopted in Art. 135. A reader of this Essay will notice the analogy between the false discontinuity occurring in infinite trigonometrical...

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