



Algebraic Calculus: A Radical New Approach to Higher Mathematics for Students of Electronics and Computer Graphics (Paperback)

By Roderick Lumsden

Eusephany Publishing, United Kingdom, 2016. Paperback. Condition: New. 2nd edition. Language: English . Brand New Book ***** Print on Demand *****. From the Preface of the First Edition: This book advocates a radically new approach to the introduction of Higher Mathematics at Freshman level. I adopt a slightly polemical tone because I m aiming to stimulate debate. The methods, and some of the terminology, that I propose may appear unconventional, but they have sound roots in mathematical history and translate exceptionally well into digital practice, so I ll start by reviewing this background. The mathematical methods introduced by Elie Cartan the better part of a hundred years ago are now widespread in research-level work. But what is not fully acknowledged is that they can revolutionize the teaching of the subject too. All that is needed is a readable, informal account of them. Bringing in these methods, suitably simplified, right at the start, in a simple, engaging style, transforms the clarity and comprehensibility of the subject. The true meaning of so many aspects of intermediate mathematics falls naturally into place. So I m doing two things: -I m showing that the idea of differential forms, which crystallised around a hundred years...



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