



# Higher Order Derivatives (Monographs and Surveys in Pure and Applied Mathematics)

*Satya Mukhopadhyay*

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The concept of higher order derivatives is useful in many branches of mathematics and its applications. As they are useful in many places,  $n^{\text{th}}$  order derivatives are often defined directly. **Higher Order Derivatives** discusses these derivatives, their uses, and the relations among them. It covers higher order generalized derivatives, including the Peano, d.l.V.P., and Abel derivatives; along with the symmetric and unsymmetric Riemann, Cesàro, Borel,  $L^p$ -, and Laplace derivatives.

Although much work has been done on the Peano and de la Vallée Poussin derivatives, there is a large amount of work to be done on the other higher order derivatives as their properties remain often virtually unexplored. This book introduces newcomers interested in the field of higher order derivatives to the present state of knowledge. Basic advanced real analysis is the only required background, and, although the special Denjoy integral has been used, knowledge of the Lebesgue integral should suffice.

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