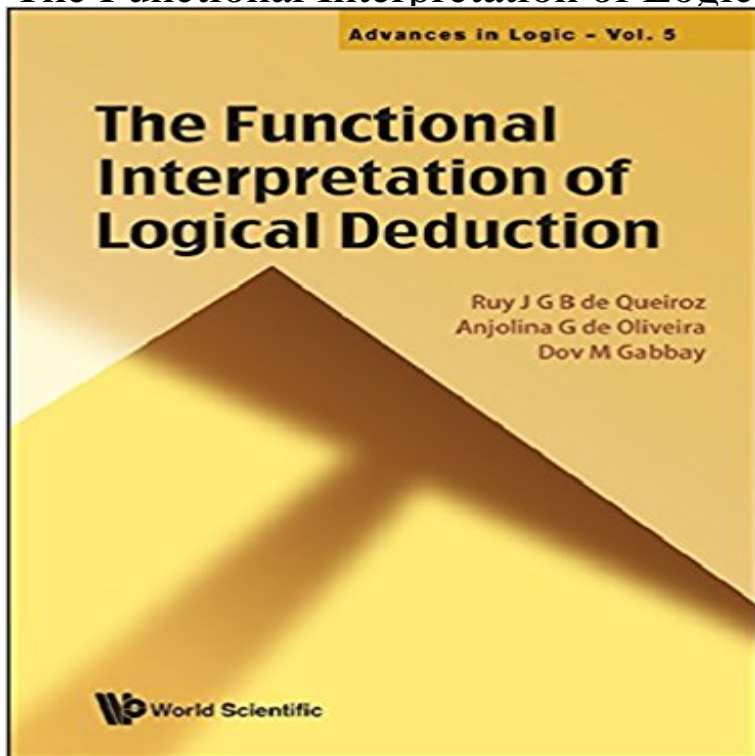


The Functional Interpretation of Logical Deduction (Advances in Logic)



This comprehensive book provides an adequate framework to establish various calculi of logical inference. Being an enriched system of natural deduction, it helps to formulate logical calculi in an operational manner. By uncovering a certain harmony between a functional calculus on the labels and a logical calculus on the formulas, it allows mathematical foundations for systems of logic presentation designed to handle meta-level features at the object-level via a labelling mechanism, such as the D Gabbays Labelled Deductive Systems. The book truly demonstrates that introducing labels is useful to understand the proof-calculus itself, and also to clarify its connections with model-theoretic interpretations.

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