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Sheaves In Geometry And Logic

We dedicate this book to the memory of J. Frank Adams. His clear insights have inspired many mathematicians, including both of us. In January 1989, when the first draft of our book had been completed,

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Sheaves in Geometry and Logic - A first introduction to topos theory Springer Verlag, 1992 (doi:10.1007/978-1-4612-0927-0) on sheaf and topos theory and its application in categorical logic.

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In mathematics, a sheaf is a tool for systematically tracking locally defined data attached to the

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open sets of a topological space. The data can be restricted to smaller open sets, and the data assigned to an open set is equivalent to all collections of compatible data assigned to collections of smaller open sets covering the original one. For example, such data can consist of the rings of continuous or smooth real-valued functions defined on each open set. Sheaves are by design quite general a

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The focus of the text on those relational structures known as "sheaves" provides an especially illuminating approach to the connections between algebraic logic, category theory, and such "purely" logical topics as proofs and models. Also, let me add that I am writing this review of the *Kindle* edition.

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Abstract: Sheaves also appear in logic as carriers for models of set theory. Beginning with several examples, it explains the underlying ideas of topology and sheaf theory as well as the general theory of elementary toposes and geometric morphisms and their relation to logic.

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Abstract. Since its very beginning mathematics was deeply related to logic and ontology. Greek

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mathematicians consciously applied the contradiction principle and had a clear idea of the soundness of modus ponens and of the implicational transitivity of deduction. When Pythagoras (or the Pythagoreans) demonstrated the irrationality of $\sqrt{2}$ by applying the method of reductio ad absurdum, Greek ...

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