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In the last fifteen years the philosophy of mathematics has become one of the most creative and innovatory areas of philosophy. In place of the old orthodoxy of the three classical approaches, logicism, formalism, and intuitionism, various entirely new approaches have been developed, among them the attempts by Lakatos and Kitcher, modelled on the approach to the philosophy of science pioneered by Kuhn and Feyerabend, to show the relevance for philosophical understanding of mathematics of the history of mathematics. Another important innovation, central to the work of Lakatos and Wittgenstein, has been a rejection of an exclusive concentration of the foundations of mathematics and formalized mathematics in favor of an examination of the actual practice of mathematics. New philosophical questions have been raised by the role of computers in mathematical proof, as shown by the Haken-Appel proof of the Four Color Theorem, and there has been growing interest in the possibility of a fallibilist epistemology for mathematics which rejects the age-old dogma that mathematics enjoys a special kind of certainty. These entirely new developments have been accompanied by equally innovatory work which has deepened and changed our understanding of the ideas of classical authors such as Russell, Frege, Hilbert, Husserl, Weyl and Brouwer.

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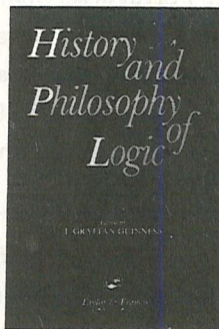
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Contents Sommaire Inhalt

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ESSLER Wilhelm K., *Kant und kein Ende*
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ARTICLES

Ontological Freedom as the Essence of Dasein:
 Heidegger's Overcoming of Objectivism and Subjectivism
 *Christopher McNicholls* 1

Did Locke Believe that Real Essences Would
 Someday Be Knowable? *James P. Danaher* 35

Augustine on the Moral Agent *Charles LePage* 49

A Comparison of the Values which Animate Libertarian
 and Customary Melanesian Forms of Ownership and
 their Environmental Implications *David R. Lea* 69

Habermas on Weber: Rationality, Rationalization,
 and the Diagnosis of the Times *Joseba I. Esteban* 93

Knowledge, Skepticism, and Public Assertability
 *Gerry Callaghan* 117

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