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Titolo	Categorical algebra and its applications : proceedings of a conference, held in Louvain-La-Neuve, Belgium, July 26-August 1, 1987 // edited by Francis Borceux
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Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 1348
Disciplina	512.64
Soggetti	Algebra, Homological Categories (Mathematics) Mathematics
Lingua di pubblicazione	Inglese
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Are all limit-closed subcategories of locally presentable categories reflective? -- On categories with effective unions -- Descent theory for Banach modules -- Pseudofunctors and non-abelian weak equivalences -- An exact sequence in the first variable for non-abelian cohomology in algebraic categories. A mayer-vietoris sequence for non-abelian cohomology of groups -- Locally hilbert categories -- Sur la convergence de suites de fonctions suivant des filtres -- The azumaya complex of a commutative ring -- The spectrum lattice of baer rings and polynomials -- Morse germs in S.D.G. -- Modal and tense predicate logic: Models in presheaves and categorical conceptualization -- On the representability of partial morphisms in top and in related constructs -- Remarks on localic groups -- Weak products and Hausdorff locales -- Generalized fibre bundles -- Closure operators with prescribed properties -- On the unity of algebra and logic -- The cohomology groups of an epimorphism -- Decker's sharper Künneth formula -- On a categorical analysis of Zadeh generalized subsets of sets I -- Global and infinitesimal observables(?) -- Toposes and groupoids -- Componental nuclei -- Representation theorems for P-categories -- On the category of compact convex sets and related categories -- Fillers for nerves -- Simultaneous representations in

categories -- Uniform spaces can be represented by completely distributive lattices.

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Sommario/riassunto

Categorical algebra and its applications contain several fundamental papers on general category theory, by the top specialists in the field, and many interesting papers on the applications of category theory in functional analysis, algebraic topology, algebraic geometry, general topology, ring theory, cohomology, differential geometry, group theory, mathematical logic and computer sciences. The volume contains 28 carefully selected and refereed papers, out of 96 talks delivered, and illustrates the usefulness of category theory today as a powerful tool of investigation in many other areas.

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