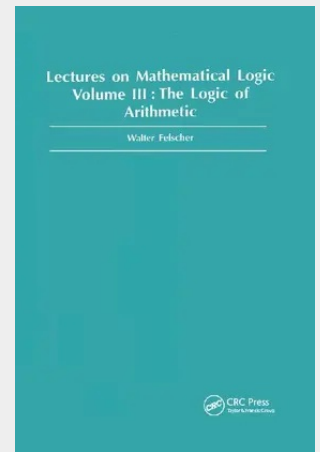


Logic of Arithmetic

For propositional logic it can be decided whether a formula has a deduction from a finite set of other formulas. This volume begins with a method to decide this for the quantified formulas of those fragments of arithmetic which express the properties of order-plus-successor and of order-plus-addition (Pressburger arithmetic). It makes use of an algorithm eliminating quantifiers which, in turn, is also applied to obtain consistency proofs for these fragments.

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*Lieferfrist: bis zu 10 Tage***Artikelnummer:** 9780367398576**Medium:** Buch**ISBN:** 978-0-367-39857-6**Verlag:** CRC Press**Erscheinungstermin:** 05.09.2019**Sprache(n):** Englisch**Auflage:** 1. Auflage 2019**Produktform:** Kartoniert**Gewicht:** 455 g**Seiten:** 312**Format (B x H):** 152 x 229 mm