

Mathematical Logic

Theorem 1.2.29: Let p , q , and r be statements. Then the following logical equivalences hold.

- (i) **Commutative laws:** $p \wedge q \equiv q \wedge p$ and $p \vee q \equiv q \vee p$
- (ii) **Associative laws:** $(p \wedge q) \wedge r \equiv p \wedge (q \wedge r)$ and
 $(p \vee q) \vee r \equiv p \vee (q \vee r)$
- (iii) **Distributive laws:** $p \vee (q \wedge r) \equiv (p \vee q) \wedge (p \vee r)$ and
 $p \wedge (q \vee r) \equiv (p \wedge q) \vee (p \wedge r)$
- (iv) **Absorption laws:** $p \wedge (p \vee q) \equiv p$ and $p \vee (p \wedge q) \equiv p$
- (v) **Idempotent laws:** $p \wedge p \equiv p$ and $p \vee p \equiv p$
- (vi) **Double negation law:** $\sim\sim p \equiv p$
- (vii) **DeMorgan's laws:** $\sim(p \wedge q) \equiv (\sim p) \vee (\sim q)$ and
 $\sim(p \vee q) \equiv (\sim p) \wedge (\sim q)$

Mathematical Logic

Kathleen Armour



Mathematical Logic:

Whispering the Secrets of Language: An Psychological Journey through **Mathematical Logic**

In a digitally-driven earth where screens reign supreme and immediate transmission drowns out the subtleties of language, the profound strategies and emotional subtleties concealed within words usually go unheard. However, set within the pages of **Mathematical Logic** a captivating literary treasure pulsing with natural emotions, lies a fantastic quest waiting to be undertaken. Composed by an experienced wordsmith, that marvelous opus attracts readers on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the psychological depths of this moving review, we shall embark upon a genuine exploration of the book is core styles, dissect their interesting writing fashion, and succumb to the powerful resonance it evokes serious within the recesses of readers hearts.

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