

Jorge Catumba, Rafael Díaz
Boolean differential operators

Comment.Math.Univ.Carolin. 55,2 (2014) 141 –158.

Abstract: We consider four combinatorial interpretations for the algebra of Boolean differential operators and construct, for each interpretation, a matrix representation for the algebra of Boolean differential operators.

Keywords: Boolean algebras; differential operators; directed graphs

AMS Subject Classification: 05E15, 05C76, 03G05

REFERENCES

- [1] Brown F., *Boolean Reasoning*, Dover Publications, Mineola, 2003.
- [2] Díaz R., *Quantum Boolean algebras*, preprint, <http://arxiv.org/abs/1011.5215>.
- [3] Reed I., *A class of multiple error-correcting codes and decoding scheme*, IRE Trans. on Information Theory **4** (1954), 38–49.
- [4] Rota G.-C., *Gian-Carlo Rota on Combinatorics*, J. Kung (Ed.), Birkhäuser, Boston and Basel, 1995.