ABSTRACT

BOOLEAN FUNCTION SIMPLIFICATION USING QUINE-MCCLUSKEY METHOD

By

Rinaldi Rismansyah
10107514

Talking about boolean algebra function, often found complexation in it's representation. Especially when the function changed into the logic gate which develops into digital system topic. So the boolean function simplification is scored as the crucial must.

In the process of boolean function simplication, there are three methods of completion. They are Algebra, Karnaugh Map, and Quine-McCluskey method (tabulation method). All of them have their own weakneses and strengthness on the process of those simplification.

A few literature has informed that Quine-McCluskey (tabulation method) is the best considered method at simplify boolean function. It may be caused the tabulation method using steps clearly and distinctly, so it produce the simplest boolean function.

Keyword: boolean algebra, method, quine mc-cluskey, simplification.