Paper 179 – Technology

MODIFICATION METHOD OF GAUSS - JORDAN OR ELEMENTARY ROW OPERATIONS ON UNIQUE SOLUTIONS SYSTEMS OF LINEAR EQUATIONS 3 VARIABLE AND 3 EQUATION

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ABSTRACT

Gauss outlines three theories to solve linear equations. Where is the theory derived from the elimination method of addition, subtraction and substitution. But the problem on the students difficult to understand, so that required modification method of Gauss - Jordan to explain the transition from elimination method.The transition can be done is to combine the two theories of Gauss is to combine Multiplying a row by a number k ≠ 0 called Operation Type II and by adding a line i by multiplying k ≠ 0 on the other lines where i ≠ j called Operation Type III became one is to add k1≠ 0 times row i with k2≠ 0 times row j where i ≠ j of matrix A is called Type III Modification. So that the process can be faster and simpler.

Keywords: Mathematics, Linear Algebra, Numeric Method