

Abstract

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A Computer Model for ing Equipment for Earthmoving Operations Using Simulation

Earthmoving is often one of the most important operations in many construction projects in terms of its great effect on costs and productivity. In this paper we propose a simulation decision supporting model using PROEQUIP to assist engineers and decision makers to the appropriate earthmoving operation and to control and record earthmoving productivity and cost. For this purpose, a graphic and analytic model that represents the earthmoving productivity was idealized. Data were collected concerning a real case, followed by several simulations aiming at the identified operational scenarios. As a conclusion of the study, PROEQUIP model provide an important instrument for decision makers when managing earthmoving planning and execution