



## Quicklook Air Mobility Modeling (Paperback)

By Mustafa K Pektas

Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This research is focused on the mobility system modeled by the AMC mobility planner s calculator (AMPCALC). AMPCALC is developed as a user-friendly tool and allows the user to easily carry out strategic airlift, air refueling and aeromedical evacuation calculations that are covered in Air Force Pamphlet 10-1403. In this study, Excel software and its macro language, Visual Basic for Application, are two main tools. The methodology of the thesis examines fundamental aspects of the mobility system in AMPCALC. Formulation logic of the mobility cycle is discussed. Ramp use optimization and tanker optimization processes are presented. Verification and validation of AMPCALC is conducted. Sensitivity analysis of the model includes a response surface study. To be able to investigate the main effects and interaction effects of the input factors on closure time, a 26 factorial design is performed. No linear relations are observed, but some relations between inputs and closure time are observed.



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