



## INTISARI

### **KETERKENDALIAN SISTEM DESKRIPTOR LINEAR**

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Dalam skripsi ini dibahas tentang keterkendalian sistem deskriptor linear. Sistem deskriptor linear merupakan sistem yang didasarkan pada model *state space* dan merupakan perluasan dari sistem linear. Berbeda dengan kasus sistem normal, untuk sistem deskriptor linear terdapat 3 jenis keterkendalian yaitu keterkendalian lengkap (*C-controllable*), keterkendalian dalam himpunan ketercapaian (*R-controllable*) dan keterkendalian impluse (*I-controllable*). Selain itu, dibahas mengenai hubungan dari masing-masing macam keterkendalian sistem deskriptor linear.



## ABSTRACT

### CONTROLLABILITY OF LINEAR DESCRIPTOR SYSTEMS

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In this final project, we discuss about the controllability of descriptor linear systems. The linear descriptor system is a system which based on *state space* models and it is a generalization of linear system. Different from the normal system case, for linear descriptor system there are three types of controllabilities namely complete controllability (*C-controllable*), reachable controllability (*R-controllable*) and impulse controllability (*I-controllable*). Futhermore, we explain about the relations of each type of controllability.