

IS 2150 / TEL 2810

Introduction to Security



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Security Policies
Confidentiality Policies



Re-Cap

- Decidable vs Undecidable?
- Safety – leakage of rights
- HRU results:
 - Systems with mono-operational commands
 - $k \leq n^*(?)(?) + 1?$
 - Generic Safety problem
 - Turing machine ? Safety



Today's Objectives

- Understanding/defining security policy and nature of trust
- Overview of different policy models
- Understand and analyze lattice structure
- Define/Understand existing Bell-LaPadula model of confidentiality
 - how lattice helps?
- Understand the Biba integrity model