Discrete linear dynamical systems with control

Author: Zuzana Procházková

Department: Department of Algebra

Supervisor: doc. RNDr. Jiří Tůma, DrSc., Department of Algebra

Abstract: In this thesis we describe elementary property of discrete linear dynamical system. We define discrete linear dynamical system with control and its controllability and then we define descrete linear dynamical system with output and its observability. After that we show the duality of observability and controllability with definition of dual system and its description. There are three problems solved in the last chapter.