

CONTROLLABILITY OF THE GIVEN SWITCHED LINEAR SYSTEM OF SPECIAL TYPE

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Деревянко А.И. Controllability of the given switched linear system of special type / А.И. Деревянко, В.И. Коробов // Технические науки: проблемы и решения: сб. ст. по материалам XIX Международной научно-практической конференции «Технические науки: проблемы и решения». – № 1(17). – М., Изд. «Интернаука», 2019.

In this paper the new special type switched linear system was checked for controllability properties. In the article possibility of point to point reaching was proved and simple algorithm for that was build. Few examples were considered and simulated in MATLAB.

The main result of the article is shown in theorem about controllability of switched systems with block-diagonal matrices with blocks of a given type. The method presented in the article is also applicable to higher order systems, which makes it possible to further development of the theory.