POVZETEK

Delo obravnava vodljivost in opazljivost sistemov linearnih diferencialnih enačb s konstantnimi koeficienti s poudarkom na povezavi z geometrijo krivulj v $\mathbf{R}^n$. Kot pripomoček je vpeljan zunanji produkt.

LITERATURA:

C. W. Curtis, Linear Algebra, An Introduction Aproach, Springer - Verlag, New York, 1984, Undergratuate Texts in Mathematics.

L. D. Drager, R. L. Foote, C. F. Martin, Controllability of Linear Systems, Differential Geometry of Curves in Grassmannians and Generalized Grassmannians, Riccati Equations, Acta Appl. Math. 16 (1989) 281 - 317.

W. Greub, Multilinear Algebra, 2nd Edition, Springer - Verlag, New York, 1978.

D. W. Kahn, Introduction to Global Analysis, Academic press, New York, 1980, Pure and Applied Mathematics, Vol. 91.

R. Kalman, M. Arbib, P. Falb, Topics in Mathematical Systems Theory, McGraw - Hill, New York, 1969.

R. Kalman, Y. C. Ho, K. S. Narenda, Controllability of Linear Dynamical Systems, Contributions to Differential Equations, Vol. I, No. 2, 189 - 213, 1963.

S. J. Lee, Operator Methods for Optimal Control Problems, Papers from the Proceedings of a Special Meeting of the AMS, New Orleans, 1986, New York, Basel, 1987, Lecture Notes in Pure and Applied Mathematics, Vol. 108.

M. Spivak, A Comprehensive Introduction to Differential Geometry, Vol's I., II., Publish or Perish, Boston, 1970.

L. C. Young, Calculus of Variations and Optimal Control Theory, Saunders comp., Philadelphia, 1969.