71) Communications in Computer and Information Science

Volume 998, 2019, Pages 71-81

9th International Conference on Computational and Information Technologies in Science, Engineering and Education, CITech 2018; Ust-Kamenogorsk; Kazakhstan; 25 September 2018 до 28 September 2018; Код 224169

Mechanics-mathematical model of conjugation of a part of a trajectory with conditions of continuity, touch and smoothness(Conference Paper)

Bostanov, B.O.a, Temirbekov, E.S.b, Dudkin, M.V.c, Kim, A.I.c View Correspondence (jump link)

aL.N. Gumilev Eurasian National University, Astana, Kazakhstan

bU.A. Dzholdasbekov IMMash, Astana, Kazakhstan

cD. Serikbayev East Kazakhstan State Technical University, Ust-Kamenogorsk, Kazakhstan

Краткое описание Просмотр пристатейных ссылок (25)

Development process of combined trajectories, in places of joining conic arcs, undesirable intermittent effects inevitably arise due to the second-order non-smoothness. A second order tangency is considered taking into account the curvature and the equality condition of the arcs curvature radii to be joined at the conjugation points. A kinematic method for determining joints on the basis of a rocker mechanism is given, which ensures smooth joints. © Springer Nature Switzerland AG 2019.