

A NEW APPROACH TO ONE PARAMETER MOTION

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Abstract

In our study, we study a different approach to one parameter motion. We think that while one of the planes is fixed, the other is deformation on the plane with shear motion. By this way, we will calculate the velocity connection and pole curve that occurred by the movement.

Keywords: Planar motion, pole curve, shear mapping.

References

- [1] H. R. Muller, Kinematik Dersleri, Ankara Unv Basimevi, Cevirenler: E. Egesoy, M. Oruc, 1963.
- [2] W. Blaschke, H. R. Muller, Ebene Kinematik, Oldenbourg, Munchen, 1956.
- [3] O. Bottema, B. Roth., Theoretical Kinematics, Dover Pub., 1990.
- [4] F. D. Rogers, J.A. Adams, Mathematical Elements For Computer Graphics McGraw-Hill, 1990.
- [5] G. Farin, Curves and Surfaces for Computer Aided Geometric Design, Academic Press, 1990.

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