TRANSFORMATION GEOMETRY

By RAM BILAS MISRA

LAP Lambert Acad. Publ. Dez 2010, 2010. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - The first chapter deals with the transformations (more precisely translation, reflection, rotation, dilation) in a plane while similar transformations in a 3-dimensional Euclidean space are dealt with in the second chapter. Non-linear, affine and locally affine transformations and rigid motions are included. Isometries are introduced in the third chapter. Chapter 4 offers a detailed account of product transformations which form an algebraic group. Infinitesimal transformations are introduced in Chapter 5. Cases when they may form a motion (preserving distances), translation (displacing each point through a fixed distance), conformal motion (preserving the angle between two directions), homothetic motion (a special case of conformal motion) and geodesic preserving transformations (called projective motions) are dealt therein. The last chapter defines a projective space in general and projective transformations: both singular and non-singular are studied. The chapter concludes with the projective transformations of a projective space onto itself, called collineations. Certain properties of collineations are studied. 88 pp. Englisch.

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