



Kinematic Synthesis of Linkages (Mechanical Engineering Series)

R.S. Hartenberg, J. Denavit

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PREFACE: In the early 1940s, the idea of kinematic synthesis of linkages was, in a manner of speaking, mentioned for the first time in this country. After a decade of gestation, original articles on the subject began to appear in America. Now, with the passing of the second decade, it is appropriate to attempt a consolidated story of some of the many efforts of European and American kinematicians. Conventional texts give an adequate presentation of the area of planar kinematic analysis. In these books, first contact is established with fundamental concepts, and known planar mechanisms are investigated for the displacements, velocities, and accelerations of their parts. In analysis, mechanisms are put on the psychiatrist's couch, so to speak, and are probed for their performance traits. The important and complementary area, that called kinematic synthesis-where mechanisms are created to meet certain motion specifications-is touched upon only by a consideration of cams and possibly a glimpse of the simpler aspects of planar linkage synthesis. In the design of a mechanism for a given application, a decision must first be reached regarding the type of mechanism to be employed, as, for example, deciding between a cam or a linkage. The number of links and connections required to give the desired degree of freedom must then be determined. Finally, the required dimensions needed to bring about a particular motion must be deduced. In the broadest sense, kinematic synthesis thus consists of the three interrelated areas of type, number, and dimensional synthesis.

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