



Figure 1 Velocity patterns for the same movement time and distance that are optimum with respect to five different objectives: A , minimum peak acceleration (*solid line*); E , minimum energy (*dashed line*); J , minimum jerk (*solid*); K , constant stiffness (*dotted*); and V , minimum peak velocity, or impulse (*solid line*). (From Nelson 1983; reproduced by permission from the author and Springer Verlag.)