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Elementary Analytical Dynamics Of A Particle by Gupta, S. R. Publication date 1963 Topics NATURAL SCIENCES, Physics, General mechanics. Mechanics of solid and rigid bodies Publisher S. Chand And Company Collection universallibrary Contributor Osmania University Language English. Addeddate 2006-12-09 08:05:28 Call number

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where the bold font indicates a vector quantity, and F_i denotes the total force on the i th particle. D'Alembert's principle may be stated by rewriting Equation (12) as $m_i \ddot{r}_i - F_i = 0$ (13) Taking the dot product of each of the Equations (13) with the variation in position r_i , and summing the result over all N particles, yields $\sum_{i=1}^N (m_i \ddot{r}_i - F_i) \cdot r_i = 0$: (14)

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