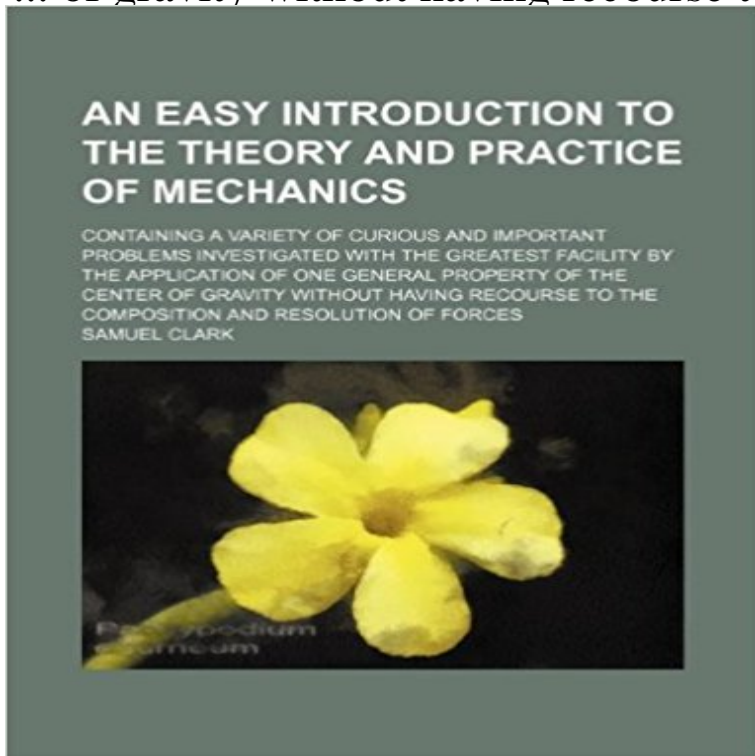


An easy introduction to the theory and practice of mechanics; containing a variety of curious and important problems investigated with the greatest ... of gravity without having recourse to the

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1764 Excerpt: ...consequently DC will be to EC, as HC to FC; but by supposition, the weight A is to the weight B, as CE to CD; that is, as CF to CH: so that the weights are to one another inversely, as the perpendicular distances of their lines of direction from the center of motion, consequently they must balance; and though the wheel should be turned upon its axis, and the distances of the lines DA and EB from C be thereby altered, yet will the similarity of the forementioned triangles continue, and, of consequence, the balance between the weights will be preserved. If a crooked lever FCD be so placed on its prop at C, as that the arm CF may be parallel to the plane of the horizon, and the arm CD inclined thereto; if two weights, as B and A, appended at D and F, be in the reciprocal proportion of the perpendicular distances of their lines of direction from the prop; that is, if B be to A, as FC to EC, there will be a balance; for as long as the arm CF continues parallel to the horizon, the weight B, hanging from the point D, acts in the same manner in opposition to the weight A, as if it hung from E, the extremity of the straight lever FC, continued on to E in which case the weight B, that balances the weight A, must bear the same proportion to it, that FC does to EC. If therefore the arm DC be bent in such a manner, as that EC may be one half or one third of FC; in the former case a weight of two ounces, and in the latter one of three ounces, hanging from D, will be counterpoised by one ounce hanging from F. If, by moving the lever, the arm FC be put out of its parallel direction, the balance will be destroyed for that cannot be preserved, unless the distance of Bs direction from the prop, continues to bear

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the same proportion to the distance of As direction, t...

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