

NOTES ON THE GRAPHICS OF MACHINE FORCES [1910]



Notes On The Graphics Of Machine Forces

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Notes On The Graphics Of Machine Forces:

Notes on the Graphics of Machine Forces Robert Culbertson Hays Heck, 1910 **Notes on the Graphics of Machine Forces** Robert Culbertson Hays Heck, 2015-06-27 Excerpt from Notes on the Graphics of Machine Forces 1 In order to determine by the simpler methods of graphical analysis the principal forces acting in machines we make the following assumptions a The weight of the machine members or the force of gravity acting upon them may be disregarded b The force of inertia need not be taken into account this idea involves either a slow running of the machine or a practically uniform motion of the parts A great many problems may be solved with quite sufficient correctness under these assumptions If the need of greater accuracy or their increase in relative magnitude requires that these forces which are functions of mass or of mass and motion be included the solution becomes much more complicated See Section J 2 For present purposes the machine is considered as made up of rigid bodies or of members which are fixed and definite in form so far as the forces entering into the problem are concerned These are all impressed forces imposed through the contact of one machine part with another The forces which act upon one piece get at each other and come into equilibrium through the medium of internal forces or stresses within the body We pass over all questions as to the magnitude or the manner of action of these stresses and use simply the resultant relations among the imposed forces which relations are the same as if the forces acted upon and met in a single material particle About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works *Notes on the Graphics of Machine Forces* Robert Heck, 2014-11-30 From the PREFACE THESE notes are intended to serve as text for a graphical course which has hitherto been based upon Herrmann's Graphical Statics of Mechanisms To the latter text there are the objections that it does not set forth the fundamental mechanical principles clearly enough for students with the usual degree of effective preparation and that it wastes entirely too much space on detailed and repeated explanations of examples The problems in this course are in the shape of good sized drawings of machines on sheets about 20 in by 27 in which are reproduced from tracings as positive prints with dark lines on a light ground The student is thus saved the labor of mere drawing and at once takes up the force determination On the drawing there is room for such special notes and suggestions as may be called for but the emphasized purpose is to have the student think for himself with needed help and suggestion from the instructor and not follow a ready worked example In section J are added some special force constructions which are useful chiefly in the problems of graphical dynamics but which are needed

to round out the presentation of graphical methods for determining impressed forces in machines It is thought that the title here used is more appropriate and descriptive than graphical statics of mechanisms Notes on Mechanical Drawing, Graphic Statics, Machine Design, and Kinematics L. Cheston Starkey,1909 **Notes on the Graphics of Machine Forces (Classic Reprint)** Robert Culbertson Hays Heck,2017-12-24 Excerpt from Notes on the Graphics of Machine Forces In section I are added some special force constructions which are useful chiefly in the problems of graphical dynamics but which are needed to round out the presentation of graphical methods for determining impressed forces in machines It is thought that the title here used is more appropriate and descriptive than graphical statics of mechanisms About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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