

Notes
on
Civil Engineering
by
Prof. C. H. Peabody.

Hiroi Isami
Sapporo Agri College.
1881.

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Introduction

A force may be fully represented by a straight line. The point of application & direction are both indicated & the length may be made to represent the amount.

Two forces acting at a point have the same effect as one force which may be substituted for the two & is the resultant, & the two forces are called the components. We shall see that more than two forces may be thus united into or replaced by one.

If the forces act in the same straight line, the resultant is equal to their sum or their difference according as they are same or opposite in their directions. If the forces are not in the same straight line the resultant will be represented in amount & in direction by the diagonal of the

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