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 loaded. Beams on three supports; pressures on the supports; maximum bending moment. Distribution of pressure on a plane joint; intensity assumed to be a linear function of the coordinates of the point; general formula for the intensity at any point; application to rectangle, circle or ellipse, rhombus, circular or elliptic annulus. To find what force should be applied at any point of a rectangular joint in order that (1) the maximum intensity should not exceed a given amount, (2) the intensity should always be positive, *i. e.*, a pressure; application to the above simple joints.
 Marks, 500.

SECTION W.

Dynamics and Hydrostatics. Re-examination on, and completion of the former course. Fluid under the action of any forces X, Y, Z. Rotating Fluid. Determination of approximate form of Earth. Pressure in a fluid in motion.
 Marks, 250.

SECTION X.

Lecture attendance. Obligatory.—Examination. Voluntary.
Mechanism and the Steam Engine (Goodeve, and a course of lectures aided by models and diagrams, Notes.) Omit special applications such as those to weaving and mangling machines. Omit Chapter V on Teeth of Wheels. Action of D slide valve. Lap. Lead. Relative position of crank and eccentric. Elementary determination of faults in the engine by examination of the indicator diagram.
 Marks, 750.