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広 告

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SYNOPSIS

**THE SEVENTH INTERNATIONAL COASTAL
ENGINEERING CONFERENCE**

BY DR. ENG., M. HONMA, C.E. MEMBER (PAGE 5)

The present paper is a record of the Conference and the inspection that followed, prepared by the author who attended the Seventh International Coastal Engineering Conference held in Scheveningen, Netherland in August, 1960 and concludes in emphasizing that many a young Japanese engineers too should participate in the international conference of this kind to promote the technical exchange in the future.

**ON THE SOLUTION OF PIN-JOINTED STRUCTURES
BY MEANS OF DEFORMATION METHOD**

*BY DR. ENG., M. NARUOKA, C.E. MEMBER AND
T. YAMAMOTO, C.E. MEMBER (PAGE 9)*

From the viewpoint of the application of digital computer to the structural analysis of pin-jointed structures, the authors proposed a mechanical tabulation method for formulating the equilibrium equations at the pin joints by means of the deformation method (not the force method). The merit of the proposed method was shown by taking the open spandrel braced arch and space pin-jointed structure as examples.

**CONSTRUCTION OF DAM AND PROBELM OF DAMAGE OF
RICE-PADDY IN DOWNSTREAM AREA CAUSED BY COLD WATER**

BY T. TAKATSUKI (PAGE 19)

The present paper describes the relation between the water temperature and the rice crop, referring to the results of the actual experiment conducted in various places, mentions why the water-temperature distribution occurs to the reservoir water, referring to the results of the actual observation, examines the facilities for taking in the water of the surface layer from the reservoir and points out that such facilities are comparatively effective so long as the water consumption is small comparing with the reservoir capacity, but hardly effective, if the water consumption is big. It further describes the temperature variation of the water in the tunnel and river after leaving the dam and it is closed with a conclusion that as the future countermeasure against the cold water temperature, to study how to raise the water temperature in the rice paddy, which actually affects the growth of rice, is more effective than to study how to control the temperature of the water in the reservoir and that the improvement of irrigation method is necessary.

**NUMERICAL SOLUTION OF SIMULTANEOUS EQUATION OF
THE FIRST DEGREE BY MEANS OF DETERMINANT**

BY R. HIKOSAKA, C.E. MEMBER (PAGE 25)

The present paper deals with a method of calculating the simultaneous equation in the case where the numerical values of the simultaneous equation of the first degree are worked out with a manual computer, applying the four rules of determinant.

VENTILATION OF ROAD-TUNNEL

BY S. IBUKIYAMA, C.E. MEMBER (PAGE 31)

The present paper describes the necessity of ventilation for the highway-tunnel, explains minutely the natural ventilation as well as the ventilation caused by the vehicles running through the tunnel and also describes the relation between the volume of ventilation and the length of tunnel.
