

# 土木學會誌

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SYNOPSIS

**REPORT ON THE SUPERSTRUCTURE WORK OF WAKATO SUSPENSION BRIDGE**

BY I. KAWASAKI, C.E. MEMBER (Page 8)

Of the superstructure works of Wakato suspension bridge whose total length and the central span are 2 068 m and 367 m respectively, the problematical points chiefly relating to the execution of work at the site are described in the present paper, and special attention has been paid to the aseismatic problem and wind-resisting problem.

**RE-DEVELOPMENT OF CITY FROM THE STANDPOINT OF CITY TRAFFIC**

BY DR. ENG. I. KOMETANI, AND Y. YOSHIKAWA, C.E. MEMBER (Page 15)

The present paper analyzes the problematical points in the existing large cities, pointing out that the re-development of cities in future should be promoted with the re-planning and the land readjustment which are affected by the arrangement of main streets in the city area as the center and a model layout for determining the plain of business area in a vast city zone has been prepared moreover, applying this model to the Han-shin city area, planning for the layout of business area is tentatively established.

**ELOOD FORECASTING FOR THE TENRYU RIVER**

BY DR. ENG. I. NISNIHATA C.E. MEMBER (Page 20)

The Tenryu River is a very rapid stream and the basin forms a feather shaped. At the midstream there is a dam with large capacity reservoir, Sakuma. Therefore, forecast of flood for the downstream is very difficult.

In this paper, the writer proposed some practical and simple methods and showed that the necessary accuracy for the flood forecasting had obtained.

**LANDSLIDES IN THE TENRYU VALLEY CAUSED BY THE HEAVY RAIN FRONT IN JUNE 1961**

BY S. NAGAO, C.E. MEMBER (Page 26)

Late in June 1961, the heavy rain front, causing numerous landslides in the Tenryu valley, brought about the serious disasters of the sandy flood.

The present paper briefly gives the résumé of the landslides in connection with the geological and topographical feature of the district and the also rainfall.

**POWER GENERATION PLAN OF THE AZUSA RIVER**

BY T. MIZUKOSHI, C.E. MEMBER (Page 30)

The present paper briefly describes the power generation project of the Azusa river. This is the largest plan (894,000 kW) in the field of hydraulic power in Japan and moreover the plant will be of a typical pumping-up power generation which is a biggest problem of the development of hydraulic power in future.

**ROCK-BED OF ARCH DAM**

BY I. KOMAI, AND I. SHIBATA, C.E. MEMBER (Page 36)

The present paper deals with a general problematical points in the rock-bed improvement plan at the site of dam, describes how the foundation rock-bed of Kawamata arch dam was disposed and examines the problematical points in the design as well as the execution.

**SUBWAY CONSTRUCTION WORK CROSSING UNDERNEATH THE TENJIN-BASHI BRIDGE PIER**

BY K. KONDO, AND J. KANO, C.E. MEMBER (Page 40)

As a link of the chain of the countermeasure for the alleviation of city traffic in Osaka a private railway has conducted the extension work by constructing a certain tunnel. The present paper describes certain problematical points of the construction work, the execution plan and the actual result.

**DUST PREVENTION OF GRAVELLED ROAD**

BY T. UMEDA, C.E. MEMBER (Page 46)

The present paper describes the economic comparison of the surface treatment of gravelled road with an actual example of Togasa Yama road.

**PROTECTION OF NATURAL-GAS PIPE LINE FROM CATHODIC PROTECTION**

BY S. TOUDO AND DR. ENG., M. NAKAGAWA, C.E. MEMBER (Page 50)

The present paper describes the installing work of the pipe line between Tokyo and Niigata over a distance of 330 km for the transmission of natural gas from Niigata district, the diameter of the pipe being 33 cm, and also the work of prevention of cathodic protection