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目　　次

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SYNOPSES

CONSIDERATION OF THE LATEST TREND OF BRIDGE DESIGN

BY S. SHIMADA (Page 10)

The present writer who is engaged in the study of bridge engineering describes his own idea about the limit to which the structure can be subdivided and considered regarding the latest bridge design from the standpoint of numerical calculation.

INDUSTRIAL MODERNIZATION AND RECONSTRUCTION OF LAND

BY F. SUNOUCHI(Page 15)

By analysing the present condition of our land which cannot overtake the rapid progress of industry, the author expresses his opinion about the future image of reconstruction of land.

PROJECT OF CONSTRUCTING ONOMICHI BRIDGE

BY T. TANAKA, M. SHIMIZU AND N. SUGAO (Page 15)

Onomichi is a city which is located between mountain and sea and developed into a narrow band shape being densely crowded with houses and a population of 85,000. It is the most densely populated district in Hiroshima prefecture. Under those circumstances an island across the Onomichi channel has an area of 26 km^2 and a population of 27,000, and the ship-building industry is active. Many of the workers who work in the ship-building yard on the island commute from Onomichi city and its environments by ferries. In this connecting Onomichi city and the island turned up and at present various investigations are under way with respect to five routes. The present paper describes the outline of project such as the development of investigations and the outline of the construction work.

REPORT ON LOAD TEST OF THE DECK BRIDGE WITH PIPE ARCH STIFFENER

BY I. KAWASHIMA AND H. HAZAWA (Page 25)

The present paper describes the live load test on the spot of Wadabashi bridge which is the first deck bridge with pipe arch stiffener in Japan.

AN EXAMPLE OF MECHANICAL CAR PARKING GARAGE —EXAMPLE OF AZUCHI-MACHI CAR PARKING GARAGE IN OSAKA CITY—

BY K. OTSUKA, S. TERADA AND K. OTSUKA (Page 33)

Osaka City was hurriedly constructing a three dimensional mechanical car parking garage having an accommodation for 450 cars as from January, 1964 to alleviate the shortage of car parking lot in the heart of city, and it was completed on 31st July, 1965. The present paper describes the plan and the outline of the car parking garage.

WORKABILITY AND WELDABILITY OF HIGH STRENGTH STEEL

BY M. SEKINO AND H. KUMABE (Page 46)

A new steel material YES developed by a steel manufacturing company is manufactured by a method differednt from the method by which high tension was conventionally manufactured. In other words it is a semi-killed steel whose yielding point is made higher and weldability, much better by adding Nb (Niobium) and V (Vanadium) and yet it is inexpensive and excellent as the bridge material. Lately a definite plan of the design specifications of steel highway bridge of YES 36 has been obtained (draft). As a result this steel material has been applied to a composite girder bridge (Ohatake bridge) and an extensive performance test has been conducted, whose result is described in the present paper.

A METHOD OF SUCCESSIVELY CALCULATING DEFORMATIONS OF PLAN TRUSS

BY H. KOJIMA AND M. NARUOKA (Page 46)

The present paper proposes, for the calculation of the panel point deviation of plane hinged joint truss, a method of successive calculation of all the horizontal and vertical panel points beginning from an end by means of the matrix operation, using the correlation of the deviation of the vertices of the fundamental triangle composing the truss and the strength of member previously calculated.

RECENT ACTIVE SITUATIONS ON HYDROLOGY IN THE SCIENCE CONCIL OF JAPAN

BY S. INOKUCHI (Page 51)

The present paper describes the outlook of activities concerning hydrology in the Science Concil of Japan and International Hydrological Decade in which the author has been participating.

OTHERS :

Beside the above papers the present issue includes the following articles :

Introduction of Industrial Technical High School, and the National Land Integrity in addition to the lecture on "Civil Engineering and Weather" continued from January.

1-CHOME, YOTSUYA SHINJUKU-KU, TOKYO, JAPAN