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□プレキャスト部材をエポキシ樹脂で接着した橋梁/高崎一郎・訳72□コンクリートの混和材としての砂糖の利用/青柳征夫・訳73□コンクリートの収縮におよぼす骨材の影響/田沢栄一・訳74□Donzère-Mondragon分水路に沿っての地下水人工涵養/細井将右・訳75□滑面固定床水路の土砂輸送/早川典生・訳76□河川の溶存酸素に対する底生藻類の影響/加藤三郎・訳77

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天草架橋工事大いに進む・80/日光道路完成・81/金精道路完成・81/富士宮道路完成・81/木下良作氏朝日学術奨励金を受賞・82/菅野発電所(山口県菅)発電開始・82/大野正夫氏駐アラブ連合日本国大使館へ・83/第5回港湾セミナー開講・83/運輸省港湾技術研究所20周年を祝う・83/台風23, 24, 号被害状況記録・83/欧米空港視察団出発・86

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JOURNAL OF THE JAPAN SOCIETY OF CIVIL ENGINEERS

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SYNOPSIS

ACTUAL SURVEY OF SHIELD OF SMALL CROSS SECTION AT SITE

BY M. YAMAMOTO, K. ENDO AND T. MIYAZAKI (Page 12)

At the time of constructing the cable tunnel for Daimon substation of Tokyo Subway operated by the Tokyo metropolis, the Traffic Department of Tokyo Metropolis adopted the shield method partly for the experimental purpose. In order to make it a help for clarifying the problematical points on the construction work by shield method the various measurements were carried out at site for a period more than one year.

The present paper deals with the outline of the measurements obtained at site and various data.

STUDY ON THE FORECAST FOR THE PASSENGERS OF DOMESTIC REGULAR AIRLINES IN THE OSAKA INTERNATIONAL AIRPORT

BY K. TERADO (Page 19)

A rapid increase of air passengers are anticipated by international airport in Japan. The existing facilities of international airports in Japan are already thought to be insufficient, and it is earnestly requested that these facilities will be reinforced as urgently as possible.

For the purpose of making an international airport plan, it is important to grasp the increasing air passengers and the movements for aircarrier operations in the target year exactly.

In this paper, mathematical models such as macroscopic and microscopic models that can be used in forecasting the air passengers and the movements for aircarrier operations have been proposed.

Applying this method of analysis to the Osaka International Airport, it is clarified that this method of analysis is a general procedure which does well with the forecast for the air passengers and the movements for aircarrier operations in the target year.

LOADING TEST OF TRUSSED-LANGER GIRDER-ESPECIALLY ON THE NORMAL VIBRATION AND LOGARITHMIC DAMPING COEFFICIENT

BY M. KISHIDA, S. NAGAI, S. ICHIBA, M. KOJIMA AND M. NARUOKA (Page 27)

Dynamical as well as statical loading test was conducted on Abo bridge for which the trussed langer girder was used for the first time in Japan. The stress at each part of the main structure, the deflection of the lower chord member was measured. The values obtained from the actual measurements were compared with those of calculated. The bridge underwent forced vibration using a vibrator and the normal vibration and logarithmic damping ratio were measured. The present paper deals with these results.

OTHERS

Besides the above the present issue contains the brief explanation of the round table talk on the subject, "Japan viewed by French Engineers" to which four persons from among young civil engineers and their wives were invited on the occasion that about one hundred students and graduates of Ecole Nationale des Ponts et Chaussées visited Japan in the summer of this year.

It also contains:

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