

PREFACE

Architectural Institute of Japan (AIJ) asked the AIJ Kyushu Branch Structural Engineering Committee to investigate the damage to building structures caused by the Oita earthquake of April 21, 1975, which affected the central districts of Oita Prefecture. The Kyushu Branch Structural Engineering Committee established the Investigation Committee of the Oita Earthquake and the results of the field investigations made by the committee were summarized and presented in this report.

These field investigations were carried out with a subsidy from the Emergency Research Fund of the Ministry of Education and by forty-four people consisting of professors, research associates and graduate students engaged enthusiastically in the field investigations. AIJ is deeply indebted to the Ministry of Education for the subsidies of these investigations and also wishes to thank the members of the investigations for their contribution to these studies.

The main objective of this report is to present the details of the earthquake damage to the building structures; thus analytical studies and discussions are not presented in detail in the report. AIJ hopes that the members of AIJ will develop further analytical studies on the basis of this report. The data and discussions presented in the report are the result of enthusiastic discussions and more than twenty meetings held by the members of the Investigation Committee of the Oita Earthquake and AIJ wishes again to acknowledge the contribution made by these members.

Kyushu Kogen Kaihatsu Co., LTD., the owner of the Kuju Lakeside Hotel, and Kyushu Electric Power Co., INC., administrator of the lands and facilities around the hotel, provided conveniences for the field investigations. Taisei Construction Co., LTD., which designed and constructed the Kuju Lakeside Hotel building, and is now an administrator of the damaged hotel, provided numerous data such as the design drawings and the reports on the damage to the hotel published by the Engineering Research Department of the corporation. In addition, Taisei Construction Co., LTD. offered many conveniences such as removing the concrete cores, reinforcement bars and finishing materials of the hotel building, and lighting during the field investigations. The Architectural Department of Oita Prefecture and the Oita Kanko Service Corporation, respectively the designer and entrusted manager of the Odanoike Resthouse, and the Fukuoka Office of the Japan Highway Corporation, the administrator of the Odanoike Tollgate of Trans-Kyushu Highway, provided the design drawings and other conveniences for the field investigations

of these buildings.

AIJ would like to thank these corporations and the Ministry of Education, as well as the active partners in writing this report and the investigators of the field investigations, for their contributions and financial support, and also hopes that this report will be put to practical use as important data for aseismic design.

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