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**Proceedings of Fourth U.S.-Japan Workshop on the
Improvement of Building Structural Design and
Construction Practices**

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Preface

The Japanese Structural Consultants Association (JSCA) and the Applied Technology Council (ATC) held their "Fourth U.S.-Japan Workshop on the Improvement of Building Structural Design and Construction Practices," August 27-29, 1990 in Kailu-Kona, Hawaii at the Hotel King Kamehameha. Approximately fifty structural engineering practitioners from Japan, Peru, and the United States attended.

The workshop was the fourth in a series jointly sponsored by ATC and JSCA. Prior workshops were held in Japan (1988), California (1986), and Hawaii (1984).

This report contains summaries and complete texts of 22 technical papers that were presented at the fourth workshop as well as the conclusions and recommendations developed by four working groups. Included are state-of-the-practice and research papers on topics such as acceptable earthquake damage, repair and retrofit of buildings, passive and active damping systems,

building drift, and wind design issues. Also included as appendices are the workshop schedule; list of participants with affiliations and resumes; an introduction to the *Architectural Institute of Japan Recommendations for the Design of Base-Isolated Buildings*; and information on other ATC projects and reports.

JSCA and ATC appreciate the extensive efforts of the authors, the United States and Japan Steering Committees, the chairs, recorders of the various working groups, Patty Christofferson of ATC, who made arrangements and coordinated workshop activities, RDD Consultants, who compiled these proceedings, and Mr. and Mrs. John C. Bravo who generously hosted the spouses of workshop participants. We also acknowledge the travel support provided by the participants and their employers.

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