

REVIEWS OF TECHNICAL PUBLICATIONS

Fast Track Construction of Precast Concrete Gymnasium

Celal Kozanoğlu

The Turkish Metal Union precast concrete gymnasium is part of a sports, training, and recreational complex with a capacity of approximately 8000 people. Due to a tight construction schedule, this project had to be redesigned using precast concrete technology; it was formerly planned to be built with conventional materials. Excluding the steel space frame roof, this oval shaped structure is built completely from precast concrete components.

Concrete International, V. 19, No. 8, August 1997, pp. 37-40.

Corrosion of Metals in Concrete (ACI 222R-96)

ACI Committee 222

This committee report has been prepared to reflect the state of the art of the corrosion of metals, and especially steel, in concrete. Separate chapters are devoted to the mechanisms of corrosion of metals in concrete, protective measures for new concrete construction, procedures for identifying corrosive environments and active corrosion in concrete, and remedial measures.

American Concrete Institute, P.O. Box 9094, Farmington Hills, Michigan 48333-9094, 1997, 30 pp.

A Critical Review of Current Approaches to Earthquake-Resistant Design

Christopher Rojahn

This report, the second publication resulting from a project sponsored by the National Center for Earthquake Engineering Research, provides an overview of seismic design codes in the United States, along with a review

of current U.S. seismic design practice, a discussion of future directions for seismic codes, and conclusions and recommendations pertaining to seismic design practice in the United States. The primary audiences for this report are civil and structural engineers familiar with both current basic building seismic design criteria and structural dynamics.

ATC-34, Applied Technology Council, 555 Twin Dolphin Drive, Suite 550, Redwood City, California 94065, 1995, 94 pp., \$30.00.

Cement and Concrete Reference Guide for Editors, Reporters and Writers

This book, intended to serve as a reference guide for media covering the construction industry, contains easy to understand information on all aspects of cement and concrete materials, technology, and markets. The guide offers short descriptions about the cement and concrete industry including the business and science of manufacturing cement and sections on building roads, bridges, housing, buildings and other structures.

Portland Cement Association, 5420 Old Orchard Road, Skokie, Illinois 60077-1083, 1997, 110 pp., \$20.00.

Concrete Construction Engineering Handbook

Edward G. Nawy (Editor)

This book is intended to serve as an in-depth handbook on concrete construction engineering and technology that will enable designers, constructors, educators and field personnel to produce the highest quality and most durable engineered constructed structures. All chapters treat particular subjects with sufficient detail and depth of discussion, culminating with an extensive list of selected references for the

user to consult beyond the scope of this book. Among the subjects covered are chapters on: Concrete Constituent Materials; Properties and Performance of Normal Strength and High Strength Concrete; Design of Concrete Mixtures; Construction of Prestressed Concrete; Architectural Concrete; and Performance Evaluation of Structures.

CRC Press LLC, 2000 Corporate Boulevard N.W., Boca Raton, Florida 33431, 1997, 1200 pp., \$99.95.

Guide for Precast Cellular Concrete Floor, Roof and Wall Units (ACI 523.2R-96)

ACI Committee 523

This guide presents information on materials, fabrication, properties, design, and handling of precast concrete floor, roof and wall units having oven-dry unit weights of 50 pcf (800 kg/m³) or less. The concrete achieves the low density through the use of gas-releasing agents or the mechanical incorporation of air.

American Concrete Institute, P.O. Box 9094, Farmington Hills, Michigan 48333-9094, 1997, 5 pp.

Bridges: A History of the World's Most Famous and Important Spans

Judith Dupré

This striking book contains hundreds of photographs of the world's most famous bridges in a large-format presentation that opens to a full yard in length. It is organized in a visual timeline tracing significant events in the history of bridge design, materials and construction.

Black Dog and Leventhal Publishers, 151 W. 19th Street, New York, New York 10011, 1997, 128 pp., \$22.98.