

Reviews of Current Publications

BOOKS

1967 ASTM STANDARDS IN BUILDING CODES.

This volume is a compilation of ASTM standards, specifications, methods of test, and definitions on the subject of standards in building codes. There are 296 standards in this book on materials used in building construction of which 47 percent are new, revised or changed in status since the 1966 edition. (*American Society for Testing and Materials*, 1916 Race St., Philadelphia, Pa., 19103, 1674 pp., \$17.25—30% discount to ASTM members)

TOWARDS INDUSTRIALISED BUILDING—Edited by the International Council for Building Research, Studies and Documentation, CIB.

This volume contains all 170 papers presented at the third CIB Congress, held in Copenhagen in August 1965. The subject of the Congress—"Towards Industrialised Building"—was held in ten groups with each author being an acknowledged expert in his particular field. Besides descriptions of recent advances in scientific knowledge the reader will find here many detailed accounts of newly developed practices. (*American Elsevier Publishing Company, Inc.*, 52 Vanderbilt Ave., New York, N.Y., 10017, 493 pp., \$41.00)

STANDARD STRUCTURAL DETAILS FOR BUILDING CONSTRUCTION—Morton Newman.

A presentation of the many typical structural details most frequently used in building design and construction is given, with each detail drawn to proportion and accompanied by descriptive text. The book is separated into four sections, each devoted to one particular type of

construction. Wood, concrete, masonry and steel are covered in accordance with the most recent editions of applicable codes. (*McGraw-Hill Book Company*, 330 West 42nd St., New York, N.Y., 10036, 358 pp., \$14.50)

CREATIVE CONTROL OF BUILDING COSTS—Edited by William Dudley Hunt, Jr.

The book is written from the point of view that cost control is one of the creative denominators of good building, beginning early in the architectural process and continuing throughout the life of the building. Methods which will not only enable architects to keep their costs within budgets, but also help them determine realistic budgets at the outset, are examined. (*McGraw-Hill Book Company*, 330 West 42nd St., New York, N.Y., 10036, 233 pp., \$14.50)

ENGINEERING AND THE LIBERAL ARTS: A TECHNOLOGIST'S GUIDE TO HISTORY, LITERATURE, PHILOSOPHY, ART AND MUSIC—Samuel C. Florman.

An exploration in depth of the relationship between engineering and the liberal arts is provided for the engineer along with a foundation for self-improvement in literature, history, philosophy, music, and the fine arts. This book will enable the engineer to view the relationship of his profession with other areas of culture and with other disciplines. (*McGraw-Hill Book Company*, 330 West 42nd St., New York, N.Y., 10036, 265 pp., \$8.95)

FALLOUT SHELTER IN INDUSTRIAL AND COMMERCIAL BUILDINGS—TR-48, December 1967.

This very necessary booklet describes what should be a basic requirement for all new construction. A brief history is supplied along

with some of the basic terminology. Various industrial and commercial buildings that have designed shelter spaces are shown. (Department of Defense, Office of Civil Defense, Washington, D.C.)

DURABILITY OF CONCRETE CONSTRUCTION, ACI MONOGRAPH NO. 4—Hubert Woods.

This is part of the American Concrete Institute's special Monograph series. It presents results of extensive research and suggests practical means for achieving durability in concrete. Of special interest to the prestressed concrete industry are the studies on corrosion of steel and other metals in concrete. (*American Concrete Institute*, P.O. Box 4754, Detroit, Michigan, 48219, 190 pp., \$6.50; \$5.00 to ACI members.)

CAUSES, MECHANISM, AND CONTROL OF CRACKING IN CONCRETE—ACI Special Publication, SP-20.

Of the 12 papers included in this volume, 6 deal with the causes and mechanism of cracking and 6 with the prevention and control of cracking. Of particular interest are a number of in-depth reports of specific investigations. Both plain and reinforced concrete are covered in this volume. (*American Concrete Institute*, P.O. Box 4754, Detroit, Michigan, 48219, 246 pp., \$13.00; \$9.00 to ACI members.)

U. S. PUBLICATIONS

STRUCTURAL DESIGN OF THE HUMANITIES AND SOCIAL SCIENCES BUILDING AT YORK UNIVERSITY—Demetri Zavitzianos.

A structural description is offered of the nine-story, 560-ft. long Humanities and Social Sciences Building under construction at York

University, Toronto, Canada. The extreme length of the building and the various architectural requirements, such as interrupted columns, created serious structural complications. These problems are discussed in addition to those of shrinkage and temperature effects. (*Journal of the American Concrete Institute*, Vol. 65, No. 3, March 1968, pp. 169-175.)

COMPONENTS OF CREEP IN MATURE CONCRETE—J. M. Illston.

Tests are reported on the creep and recovery of concrete under uniaxial compression and tension, applied at advanced ages of over a year. The characteristics of the creep components for young and mature concrete are compared and found to be in reasonable agreement. The rate of flow method for calculating strain under variable stress is discussed and compared favorably with the method of superposition. (*Journal of the American Concrete Institute*, Vol. 65, No. 3, March 1968, pp. 219-227.)

PRECAST BOXES STACKED TO BUILD 496-ROOM HOTEL IN NINE MONTHS FOR HEMISFAIR—Roy W. Gillette.

This is a description of the construction and erection techniques used for this hotel which utilizes a system of modular precast concrete boxes as rooms. All rooms were precast, prestressed and furnished on the ground and then hoisted into place. A tail rotor blade and drive unit from a helicopter provided the necessary stabilization and formed a unique method of hoisting and positioning. (*Civil Engineering*, March 1968, pp. 44-47.)