

explosive characteristics;
testing—instrumentation;
testing—structure testing.

These sections comprise over 900 pages and the depth of study in the various areas is very considerable. Obviously this is a very specialized subject and the volume deals primarily with problems associated with containment vessels of various types. However, the sections dealing with explosive characteristics, testing and instrumentation and structure testing, including assessments of the validity of scale model tests, are of considerable interest to research workers and engineers in general, particularly in view of the considerable interest in this country at the present time in the subject of gas explosions and their effect upon structures.

The coverage is very thorough, making the volume a most useful work of reference to specialists in this particular field.

R.E.R.

Central Building Research Institute, Roorkee U.P., India: Annual Report 1968

Roorkee, 1969. 220 × 220 mm. pp. 58 + 8 of plates. Gratis.

This report, of course, covers the whole field of interests of the Institute. These subjects studied range from natural and artificial lighting to the efficiency of water closets of various makes. The emphasis of the Institute's programme is, quite properly, upon problems of a practical nature and upon making the best possible use of available resources.

Cement and concrete subjects include the development of pozzolanic slag cements, which were tested for resistance to sea water in accordance with French Standard P 15301; the utilization of high-magnesian limestone for the manufacture of Portland cement; the properties of bloated clay lightweight aggregate and the construction of a pilot plant for its production; the development of reinforced cellular (aerated) concrete units and a coating to protect the reinforcement

in them; the use of fly ash in structural and in ready-mixed concrete; and the corrosion of steel reinforcement in pozzolanic concrete.

Appendixes include lists of papers published and presented at conferences and of translations made during the year under review.

A.E.B.

Structural Concrete Research at Lehigh University

Projects—Reports—Publications

by Ti Huang and David A. VanHorn

Bethlehem, Pennsylvania, U.S.A., Lehigh University Institute of Research, October 1969. pp. 30. Report No. 237.42 (69).

This compilation lists past and present research by the Civil Engineering faculty and staff at the Fritz Engineering Laboratory at Lehigh University. The subjects covered are (1) plain, reinforced and prestressed concrete, (2) composite construction, (3) beam-slab type bridges, (4) concrete pavements, (5) shell roof construction, (6) wire, wire rope and wire strand and (7) brick assemblages.

Part I lists all projects which have been conducted in these seven categories since 1921. Part II gives the authors and titles of progress or project reports, published papers, and reports by graduate students (for partial fulfilment of course or degree requirements) arising from the principal projects in progress since about 1952, listed under the projects. In part III, the papers published externally from 1952 to 1969 and arising from work on the projects listed in Part II are listed chronologically with their bibliographical details, excluding page numbers.

The report is a useful and comprehensive list. It does not set out to give any kind of assessment and no summaries are included.

A.E.B.