rural housing conditions, and in the United States of America and Canada for urban housing, are reviewed in a study entitled "Urban and Rural Housing" conducted by M. B. Helger, of the Swedish Social Board, which has been published by the Economic Intelligence Service of the League of Nations (Geneva: League of Nations. London: George Allen and Unwin, Ltd. 3s. 6d.). The study has special reference to the cost involved and the results obtained, mainly in the housing problems raised after the War of 1914-18, and the attempts at solving those problems up to the outbreak of hostilities in 1939. Separate chapters are devoted to each country, and figures are given showing the need for additional accommodation, the lack of modern conveniences in existing dwellings, and the number of existing dwellings which should be repaired, or demolished as unfit for further use. General aspects of the housing problem are discussed in an introductory chapter in which the two aspectssocial and technical—of the problem are distinguished.

In regard to the social aspects, the causes of fluctuation in building activity and their bearing on the periodic shortage of houses are examined. The technical aspects are concerned with the quality of housing and are better treated separately because the ideas of public authorities as to minimum standards appear to make it impossible to solve the housing problem merely by the operation of supply and demand. This is partly because the income of many families is inadequate to enable them to obtain housing with the minimum conditions of health and comfort, and partly because many families fail to appreciate the importance of these conditions and make no effort to obtain suitable housing even when they can afford to pay the rent for it.

Economizing on House Fuel

According to Science Abstracts of November 4, E. S. Draper, director of the regional planning studies, reported at a meeting of the Committee on the Hygiene of Housing of the American Public Health Association, that by using adequate insulation against heat loss when building a small house, the cost of the fuel required can be reduced by nearly one half. A simple heater suitable for the central heating of small houses was developed after tests at the Gilbertsville Dam construction community and is now being placed in the open market. The insulation studies were carried out in two identical four-roomed houses in the Niwassee Dam construction community. The installation of electrical heaters made it possible to record with great accuracy the heat loss in the two houses. One of them was insulated throughout by wool bats in the walls and over the ceiling and an insulation board under the floor joists. Both houses had both doors weather-stripped. Both families obeyed the same schedule of window-opening in bedrooms at night, windows closed by day, and the heaters were turned on and off at the same times. The reduction in the total heat loss in the insulated house was 44.75 per cent. The cost of the insulation, including labour and materials, was about £40.

The simple heater described by Mr. Draper was designed to effect a reduction in the capital cost of central warm air heating over that of installing the warm air furnaces available in the market. The object was to have a primary heat source (without provision for air filtering or humidification) placed in an exceptionally small first floor heating chamber centrally located, so that it might give service to all rooms of a small house without the usual extensive system and basement.

Accessibility of University Theses

"The Accessibility of British University Thesis Literature", a pamphlet prepared for the Nottingham meeting of librarians last September by Colonel Luxmoore Newcombe, principal executive officer of the National Central Library, is a full and careful survey. A thesis usually contains original matter which may be important for the advancement of the subject, and the range of special studies has been enlarged of late. It should be easily consulted, if only that the work may not be duplicated by some other specialist. This accessibility, the writer shows, is far from being satisfactorily arranged at present. He gives a list of all the theses for degrees at British universities, and the conditions under which they can be consulted. He includes also the collections of foreign theses available. Oxford received between 1885 and 1938 about 263,000 of these. Great Britain has no great guides to her published and unpublished theses such as exist in Germany, France and the United States.

THE French issue annually a volume containing on an average 2,150 entries, well indexed. The American catalogue of "Doctoral Dissertations" during 1937-38 includes 2,768 items, but here the degree sought is so common among teachers that good subjects are getting rare, and descriptive rather than original stuff The library of the University of finds a place. Aberdeen has no printed list after 1937. Edinburgh has published an annual list since 1931, but it cannot be purchased. In London an annual list of titles is published and a cumulative catalogue is to be made out of it every five years. Medieval studies and history are fortunate in special catalogues. Only six universities have both an author and a subject index. A national guide to all British theses should be made, and its natural place would be the Central Library. It should be possible for friends of research such as the Carnegie Corporation to back the scheme with adequate funds. Colonel Newcombe also suggests that the Library might have a copy of every foreign thesis on loan. The photostat seems a suitable means of increasing the supply of duplicates at the various universities.

Astronomy in Ancient Egypt

THE traditional view that the knowledge of astronomy of the Greece of classical times had been derived from Egypt, a view to which the writings of the Greeks themselves lent support, has lost favour with increased acquaintance with the achievement