course had to be made to the technical journals, some of which are not readily available. The publication of this compilation is, therefore, a great service not only to the chemist at the gas works, but to all chemists who have to deal with the problems of the related industries.

The subjects discussed comprise: Coal and coke, gas oil, purification material, gas analysis, heating value, tar, ammonium sulphate, lime, cyanogen, impurities in gas, tar products and light oils, miscellaneous, Portland cement, steel, alloy steels, etc. There are some excellent tables and a good index. The newest developments in the gas industry, such as the recovery of cyanogen and the recovery of benzol and toluol, are well covered and the descriptions are clearly written.

It would be difficult to conceive of a gas chemist to-day who would not desire to have this book on his shelf for reference, if not for daily use.

PUBLICATIONS RECEIVED

Berger Transit Bulletins Nos. 2 and 4.—Published by C. L. Berger and Sons, Boston, Mass.

New Brunswick Power Company.—Annual report for 1917. H. M. Hooper, secretary, St. John, N.B.

The Resources of Tennessee.—Quarterly, January issue, published by the State Geological Survey, Nashville, Tenn.

Back Pressure Valve.—Pamphlet describing and illustrating the Cochrane Multiport valve, issued by Canadian Allis-Chalmers, Limited, Toronto.

Street Flushing.—Catalogue of Tiffin 2-motor-system flushing and sprinkling machines. Sent on request by the Tiffin Wagon Co., Tiffin, Ohio.

American Railway Engineering Association.—Bulletin, nineteenth annual convention. Published by the association at 910 Michigan Avenue, Chicago, Ill.

Mineral Production of Canada.—Preliminary report for 1917. Prepared by John McLeish, B.A. Published by Mines Branch, Department of Mines, Ottawa.

Belts.—A monthly, containing information for users of pulley belts. Published and distributed free by the Federal Engineering Co., Limited, 172 John Street, Toronto.

Industrial Storage Battery Locomotives.—Catalogue No. 231. Interested persons can obtain free copies by writing to The Jeffrey Manufacturing Company, Power Building, Montreal, P.Q.

Tests of Small Telescopes at the Laboratory of the Dominion Land Surveys.—By E. Deville, LL.D., Surveyor-General of Dominion Lands. Bulletin 41, Topographical Surveys Branch, Department of Interior, Canada.

Block Survey Reiterating Transit Theodolite.—Six-inch micrometer, 1912 pattern. Description, adjustments and methods of use. By W. H. Herbert, B.Sc. Bulletin 34, Topographical Surveys Branch, Department of the Interior, Ottawa.

Combustion of Coal and Design of Furnaces.—Report of experimental investigations to determine the most efficient designs and operation of furnaces. Bulletin 135, published by the Bureau of Mines, Department of Interior, Washington, D.C.

Bennis Patent Coking Stoker.—Catalogue of a patent automatic stoker and self-cleaning compressed air furnace. Will be sent on request by Ed. Bennis and Co., Limited, publicity department, 28 Victoria Street, Westminster, London, S.W., England.

Experiments in Dust Prevention and Road Preservation, 1916.—Progress reports. Published by Logan Waller Page, director of the Office of Public Roads and Rural Engineering. Bulletin 586, United States Department of Agriculture, Washington, D.C.

Rare and Standard Books on Exact and Applied Science.—A catalogue of (including the scientific portion) the library of the late Rt. Hon. Sir James Stirling, F.R.S., etc. Issued by Henry Sotheran and Co., 140 Strand, W.C. 2, near Waterloo Bridge, London, Eng.

Sulphur—An Example of Industrial Independence.—Bulletin 102, Part 3, the Mineral Industries of the United States. By Joseph E. Pogue, of the Division of Mineral Technology, U.S. National Museum. Published by the Smithsonian Institute, U.S. National Museum, Washington, D.C.

Coal Products; An Object Lesson in Resource Administration.—Bulletin 102, Part I., the Mineral Industries of the United States. By Chester G. Gilbert, curator of Mineral Technology, United States National Museum. Published by the Smithsonian Institute, U.S. National Museum, Washington, D.C.

Percentage of Extraction of Bituminous Coal.—With special reference to Illinois conditions. By C. M. Young, Illinois Coal Mining Investigations Co-operative Agreement. Prepared under a co-operative agreement between the Engineering Experiment Station of the University of Illinois, the Illinois State Geological Survey and the United States Bureau of Mines. Issued by University of Illinois, Urbana, Ill.

The Canada & Newfoundland Development Company, North Sydney, N.S., are having plans prepared for six reinforced concrete scows. Architects, Booker & McKechnie, Davidson Bldg., Halifax.

E. D. Creer, engineer of the Vancouver and District Joint Sewerage and Drainage Board, is asking for the establishment of a permanent maintenance gang. The sewerage system of the municipalities is worth over $2,000,000, and consists of over 20 miles of trunk sewers. For financial matters, the sewerage board makes the allotments, and the municipalities acting as collecting agencies. The allotments are divided so that 30 per cent. of the amount is borne by the whole sewerage district affected, and 70 per cent. by the immediate district benefited.

Railways and canals votes in the estimates tabled in the Commons at Ottawa include, in addition to the I.C.R. and Hudson Bay Railway votes: $700,000 for the Quebec bridge, $1,860,000 for the Welland ship canal, $500,000 for the Trent Canal and $250,000 for the National Transcontinental Railway. Public works votes include an additional $1,500,000 to cover the cost of construction of the new Parliament buildings at Ottawa, and $1,000,000 for the new departmental building at Ottawa. Harbor and river votes under this head include $350,000 for improvements at Port Arthur and Fort William, $150,000 for improvements at Vancouver, and a similar expenditure of $166,000 on Victoria Harbor, B.C. The total vote for public buildings is $2,620,000, as compared with $2,125,000 for the current fiscal year. On the other hand, harbor and river votes will decrease from $5,931,000 to $1,836,000. Estimates for public works in the Province of Ontario total $607,800, of which revotes amount to $180,300. Every item is in connection with the completion of buildings already under construction. For harbors and rivers in Ontario the total vote is $252,315, the main items being: $77,000 further for Port Stanley harbor improvements; $40,000 for repairs to Langevin pier; $14,000 for repairs to piers at Port Burwell, and $7,400 for repairs to breakwaters at Port Colborne.