

fully was the work done, that the first edition was exhausted in a year, and the second larger one in a few years more.

DYNAMO, MOTOR, AND SWITCHBOARD CIRCUITS FOR ELECTRICAL ENGINEERS. By William Rushton Bowker. Second Edition. New York: D. Van Nostrand & Co., 1908. 8vo.; pp. 168; 130 figures. Price, \$2.50.

The special object of this book is to present the subjects indicated by the title in a non-mathematical way, and as viewed from the practical standpoint.

ELEKTRISCHE UHREN. Von Dr. A. Tobler, Dozent am Eidg. Polytechnikum in Zürich. Zweite Auflage, bearbeitet von Johannes Zacharias, Ingenieur, Mit 120 Abbildungen.

Since the publication of the first edition of Zacharias' "Electrical Clocks," the technique of the art has advanced to such a degree that a new edition seemed necessary.

PRACTICAL CONCRETE BLOCK MAKING. By Charles Palliser. New York: Industrial Publishing Company, 1908. 75 pp.; 12mo.; fully ill. Price, 50 cents.

The author, though obviously somewhat prejudiced in favor of the concrete block from his years of successful experience in its manufacture, tells a convincing story going to show that much of the criticism applied to the block should more properly belong to the careless maker or the inadequate machine.

THE PROBLEM OF AGE, GROWTH, AND DEATH. By Charles S. Minot, D.Sc. New York: G. P. Putnam's Sons, 1908. 280 pp.; 8vo.; ill. Price, \$2.50.

Whereas this book deals with a series of biological problems, it is, as the author points out, essentially a study of a single phenomenon, the increase in the amount of protoplasm.

which he has labored, the great number of interesting by-paths revealed as he started along his chosen road which his other occupation prevented his following, and does not at all claim his book to be a complete treatise on the subject, but so far as it goes and within the limits indicated by the title the work is admirably thorough.

LA SYNTHÈSE DES PIERRES PRÉCIEUSES. Par Jacques Boyer. Paris: Gauthier-Villars, Imprimeur Libraire du Bureau des Longitudes de l'École Polytechnique, 1909.

This little monograph on the synthetic production of precious stones is one of the first attempts which we have seen in book form to present a general review of the manufacture of gems artificially.

HYDRAULIC TABLES. Second edition, revised and enlarged. New York: John Wiley & Sons, 1909. 104 pp.; 8vo. Price, \$1.50.

This new edition contains little alteration beyond correction of errors discovered in the first edition and could hardly contain any improvement, being already well known as the most complete set of hydraulic tables published.

AUTOMATIC SCREW MACHINES AND THEIR TOOLS. By C. L. Goodrich, Screw Machine Expert Pratt & Whitney Company, and F. A. Stanley, Associate Editor of the American Machinist. New York: Hill Publishing Company, 505 Pearl Street; 6 Bouverie Street, London. E. C. American Machinist, The Engineering and Mining Journal, Power and The Engineer. Octavo; pp. 255; illustrated. Price, \$2 net.

The subject matter of this book naturally divides itself into two parts. One devoted to various types of machines and their construction, general tool equipments, methods of camming, etc., and the other to tools in detail and containing specific information on making and using these tools, the speeds and feeds at which they should be operated, and other particulars which will be of service to mechanics interested in screw machine work.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending May 4, 1909,

AND EACH BEARING THAT DATE

[See note at end of list about copies of these patents.]

Table listing inventions such as Abrasive bodies having a porcelain base, Air-brake, Air-engine, Acid, manufacturing nitric, etc.

Legal Notices. 60 YEARS' EXPERIENCE. PATENTS. TRADE MARKS DESIGNS & C. COPYRIGHTS & C. Scientific American. A handsomely illustrated weekly. Largest circulation of any scientific journal.

Table listing inventions such as Bag-fastener, Baker's peel, Ball used for golf and like games, Banding-machine, Basket, Bath-tub, Bean-sorter, Bearing, ball, etc.

Table listing inventions such as Clamp, winding mechanism, electric, Clock, winding mechanism, electric, Compasses or dividers, Concrete-block machine, etc.