The Elements of Surveying and Geodesy. By W. C. POPPLEWELL. New York, Longmans, Green and Company, 1915. 244 pp. Price $2.25.

THIS book contains the usual descriptions of surveying instruments and their uses, chapters on geodetic astronomy, earthwork calculations, railway curves, underground and hydrographic surveying. Distinctively an English text, it contains no matter pertaining to public land surveys in the United States. The exposition is clear, detailed, and accurate. The mathematical nature of the subject is kept in the foreground. A brief course, as the title indicates, it covers the field in a surprising manner.

The book contains five pages of four-place tables. There are no collections of trigonometric or other formulas. For field work it would need to be supplemented by a separate book of tables. There are no exercises.

W. V. LOVITT.

NOTES.

THE third annual meeting of the Mathematical Association of America was held at the University of Chicago on Thursday and Friday, December 27–28, 1917. At the opening session on Thursday morning papers were presented by A. F. FRUMVELLER: "The graph of $f(x)$ in line coordinates for complex numbers;" F. H. HODGE: "On the generalization of the witch and the cissoid;" W. H. BUSSEY: "Fermat's method of infinite descent;" C. N. MOORE: "On the disciplinary and applied values of mathematical study;" E. J. MOULTON: "On the content of a second course in the calculus." Thursday afternoon was devoted to a consideration of the teaching of descriptive geometry as a college subject, opening with an address by W. H. ROEVER, followed by extended discussion. At the meeting of the Council important matters of policy and procedure were taken up. The evening was dedicated to a joint dinner with the Chicago Section of the American Mathematical Society. On Friday morning reports were presented by the committees on mathematical requirements, libraries, and mathematical dictionary. General discussion followed each report. In the afternoon a joint session