Review

Source: *The Mathematical Gazette*, Vol. 3, No. 49 (Jan., 1905), p. 141

Published by: [Mathematical Association](#)

Stable URL: <http://www.jstor.org/stable/3602745>

Accessed: 13-02-2016 05:31 UTC

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mathematicians, they will not be happy till they get it. Klein and his colleagues have indeed conferred upon us a boon which will be generously recognised.

Technical Mechanics. By E. R. MAURER. Pp. xvii, 403. \$4. 2nd edition, revised and enlarged, 1904. (New York: Wiley & Sons; London: Chapman, Hall.)

We are glad to see that the merits of Professor Maurer's treatise on Technical Mechanics have so rapidly been recognised. We have already commented in favourable terms on the excellent planning of the broad outlines of this book, and on the skill and judgment with which the illustrative examples of practical interest have been selected and arranged (vol. iii., p. 16). The additions to the present edition consist of an appendix on the principle of virtual work as applied in the case of a particle, a system of particles, and to statically indeterminate problems; an appendix containing sections on truss loads, weight of roofing, weight of trusses, weight of snow, wind pressure, computation of apex loads, maximum stresses, classification of frames, and additional remarks on funicular polygons.

Solutions of the Problems and Theorems in Charles Smith's Geometrical Conics. By CHARLES SMITH. Pp. 143. 6s. 1904. (Macmillan.)

Key to Godfrey and Siddons' Geometry. By E. A. PRICE. Pp. 172. 5s. 1904. (Cambridge University Press.)

Solutions of the Examples in Hall's Graphical Algebra. By H. S. HALL and H. C. BEAVEN. Pp. 59. 3s. 6d. 1904. (Macmillan.)

Key to Elementary Geometry. By CECIL HAWKINS. Pp. 195. 5s. 1904. (Blackie.)

There will be many teachers to whom Mr. Smith's key will be a boon, and many private students who will find it of the greatest value if they have no other guidance. We are glad to see that the price is prohibitive to the ordinary school-boy, although when a boy is old enough to tackle the stiffer examples in Mr. Smith's *Conics* he is quite old enough to know how to use a key wisely and well. We have tested a good few of the solutions and found them neat and elegant, as indeed one would expect from a teacher of Mr. Smith's experience. We may add that the solutions refer to the fourth edition of the *Geometrical Conics*.

We may compliment Mr. Price on the figures in his *Key to Godfrey and Siddons' Geometry*, and, in fact, we ought to extend the compliment to the Cambridge University Press for their share in its production. There must be a very large number of teachers to whom this little book will be of value, partly because practical geometry was not in their mathematical course while at the University and partly because the figures and solutions will save them much time in examining the works of their classes. The figures are reduced copies of diagrams drawn to scale, and in most cases Mr. Price has given the answers to one place of decimals more than is asked for. Here again the price is probably beyond the reach of all beginners but those drawn from the ranks of the plutocracy.

As one might expect, for the present there will be many to whom graphical work is both novel and difficult. Mr. Hall tells us that he has had many letters of enquiry on the subject of "graphics" from both teachers and students. This has naturally led him to prepare a Key with full solutions and diagrams of all the more important examples. If, as he suggests, the Key is only used as a final check on the result, the appearance of this little volume is amply justified. The 75 graphs are very carefully and accurately drawn. We know from personal experience the time and attention that is required in the correction of the beginners' graphs, and we can cordially recommend this Key to all teachers of large classes using the *Graphical Algebra*. Mr. Hawkins gives no diagrams and, as he says, has found it necessary to give fuller treatment to particular cases than is advisable or necessary in ordinary cases. This will not make his book any the less useful to the teacher, for whom the solutions are intended. Ample hints are given for the solutions of many of the questions, but we rather think that the enterprising school-boy of tender years who purchases this Key for the purpose of diminishing his mental exertions will report