

Among the factors that have served to bring about these changes are the many new areas of application, the increasingly sophisticated demands made by traditional areas of application, and, as part of the same picture, the computer revolution. With increasing employment of mathematicians in government and industry, the colleges and universities, especially the smaller and less prestigious ones, are unable to maintain the quality of the staff, even where, in simpler days, it may have been adequate.

All this is spelled out in considerable detail in the report, and a series of recommendations are made. They are convincing enough to those already close to the problem. One can only hope that also others will be convinced.

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72[14].—COSRIMS, *The Mathematical Sciences: A Collection of Essays*, The MIT Press, Cambridge, Mass., 1969, x + 271 pp., 24 cm. Price \$8.95.

This volume is intended to supplement the main report of COSRIMS, also reviewed here, by developing more fully, still in the language of the layman, special branches of mathematics and special areas of application. It is in the form of twenty-two essays, mostly by mathematicians. A few titles and authors, selected almost at random, may give some notion of the depth and breadth: "The Social Sciences Call on Mathematics" (16 pages) by Kemeny; "Topology of Molecules" (15 pages) by Lederberg; "Non-Euclidean Geometry" (8 pages) by Coxeter; "Statistical Inference" (12 pages) by Kiefer; "Solving a Quadratic Equation on a Computer" (15 pages) by Forsythe; "Mathematical Linguistics" (7 pages) by Harris; "The Continuum Hypothesis" (9 pages) by Smullyan. Usually, but not always, the mathematical authors attempt to at least indicate some applications outside mathematics of the discipline they are discussing.

One could find fault, perhaps, with one or two of the essays, but taken as a whole this is a remarkable collection. It would seem that even one who is mathematically completely illiterate should be able to read it with both pleasure and profit.

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