

identified with perfectly good mathematical operators (unbounded, but closed and densely defined). This development was independently arrived at by J. M. Cook, whose approach was perhaps less concrete but more invariant, using tensors over a Hilbert space rather than square-integrable functions of several variables. The large number of applications and comments that are made in the book may be judged from the fact that the mathematical part of Cook's paper is 10 pages long while the corresponding material in the book is scattered through some fifty odd pages, without including proofs of such results as the self-adjointness of the canonical P 's and Q 's.

There is no doubt that the author has succeeded in his aim "to present basic sections of field quantum theory in a consistent mathematical language without carrying out all mathematical deductions with complete rigor." It is regrettable that the standard of rigor and the mode of presentation are not such as to make the mathematical consistency of many of the sections wholly manifest and explicit, but one must be thankful that the ice has been broken with this first large-scale attempt to deal mathematically with quantum fields. While the book is not easy reading in detail and is not closely integrated in the large (the relation between statistics and dynamics seemed blurred to the reviewer), a mathematician interested in a more rigorous and searching approach to the specific problems of quantum field theory may well find this a stimulating and useful book.

I. E. SEGAL

Collected mathematical works. By H. Bohr. Ed. by E. Følner and B. Jessen. Copenhagen, Dansk Matematisk Forening, 1952. Vol. I, 34+771 pp., 1 plate; vol. II, 9+852 pp., 1 plate; vol. III, 10+985 pp., 1 plate. 110 kr.

These volumes are an impressive reminder that Harald Bohr was one of the great mathematicians of the first half of this century. Most of his work is now generally regarded as "classical" and much of it has been superseded or subsumed in more general results, but this fact is in itself a tribute to the importance and fundamental character of his work and to the stimulation which it gave to other mathematicians. His papers are sure to be admired by generations of future mathematicians and the publication of his collected works is accordingly most welcome.

Aside from the intrinsic interest of Bohr's papers, they are models of mathematical exposition. Their eminent readability makes them excellent reading for students of analysis at practically all levels. While this readability is largely due just to good mathematical writ-