

Finally, we remark that a number of new graduate texts on measure theoretic probability are now being written, soon to appear. The prior appearance of Dudley's book is certain to define a new standard of rigor and completeness for the decade of the 1990s.

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*Noncommutative Noetherian rings*, by J. C. McConnell and J. C. Robson. Pure and Applied Mathematics. Wiley Interscience, John Wiley and Sons, New York, 1987, xiv+596 pp., \$138.00. ISBN 0-471-91550-5

A ring  $R$  is said to be *right Noetherian* if every right ideal of  $R$  is finitely generated. There are two equivalent conditions: The *ascending chain condition* (every ascending chain of right ideals becomes stationary) and the *maximal condition* (every nonempty set of right ideals contains maximal elements). It has been 100 years since Hilbert [H] proved his basis theorem, which nowadays is stated in the following form: If  $R$  is a Noetherian ring, so is  $R[x]$ , the polynomial ring over  $R$  in one variable.

Hilbert used his result to conclude that certain rings of invariants were finitely generated. The name "Noetherian" honors