therefore inevitable that the book would have to undergo extensive revision. It is now confined largely to the technical aspects of the subject and has been improved by considerable reorganisation. There are three more contributors, and many chapters have been fundamentally rewritten.

Although the book covers clinical microbiology, it is in fact heavily biased towards public health work and microbiology in the food industry and veterinary medicine, which inevitably results in the inclusion of many methods and species of little interest to the hospital microbiologist. A lack of clinical experience is also sometimes apparent, for example, *Proteus vulgaris* and not *Proteus mirabilis* is said to be a frequent cause of urinary tract infections, and the increasingly common infection of this site by *micrococcus* as distinct from *Staphylococcus epidermidis* is not mentioned. At £9-50 the book is expensive, and clinical microbiologists may be reluctant to pay this for a book containing so much which does not concern them, but it will be a useful addition to the bookshelf of any laboratory, particularly those concerned with public health.

PAMELA WATERWORTH


In his foreword, Professor Sol Sherry states that this monograph represents the edited proceedings of an international heparin symposium held in London in July 1975. The volume is more than a group of related research papers. It is an organised collection of comprehensive and up-to-date reviews together with a reasonable sprinkling of carefully selected original papers. The book is printed in off-set style with hard covers and has been published in a relatively short period of time. Needless to say the 50 or so contributors are recognised experts in their fields. The first section is on the chemistry of heparin and contains chapters on its chemical and crystalline structure, different molecular forms, and an important chapter on standardisation. The next section on heparin and coagulation contains a notable review on the biochemistry of prothrombin activation as well as contributions on the action of heparin, heparin and platelets, and lipoprotein lipase and heparin. A useful chapter on streptokinase, a little out of context, is also included. Finally, there are two substantial sections on the clinical use of heparin and clinical trials. These sections contain much of interest, including chapters on the control of therapy, treatment of venous thrombosis and pulmonary embolus, and the use of heparin in disseminated intravascular coagulation and renal disease as well, of course, as on the low-dose regime in surgical prophylaxis. The editors are to be congratulated on their excellent choice and the contributors for producing what is in effect a textbook on heparin. Although expensive, by present-day standards it represents very good value for money.

A. L. BLOOM


Dr Bernheimer concedes that it may not be possible to transform a large number of disconnected facts and hypotheses into a small number of far-reaching principles. He adds to the complexity by embracing a wide assortment in his term 'toxology', but he gives us a stimulating selection of growing points. These range from authoritative discussions on diphtheria toxin, cholera enterotoxin, and other enterotoxins to a careful review of microbial phospholipases and thoughtful considerations of the actions of bacterial products at cell membranes and in the skin. The limulus test for endotoxin is evaluated, and the antitumour activity of certain streptococci is speculatively and provocatively discussed.

J. G. COLLEY


This book will be of value to students and supervisors engaged in elementary courses in immunological techniques; it is unlikely to have a much wider appeal. In covering such a vast field the authors had to be selective. However, the technology they chose for detailed description is clearly presented. Many sections are introduced with well-explained theoretical considerations. The text deals largely with the mouse as the experimental prototype but it would have been helpful if the modifications for use with human tissue had been included. Thus clinicians will find this book of little value since it gives only passing reference to immune deficiency, hypersensitivity states, recognition of organ-specific antibodies, the monitoring of immunosuppression, and tissue typing. These considerations were probably not in the authors' intent, nevertheless the title (Practical Immunology) is a little deceiving; possibly 'Elementary Immunological Techniques' would have been more appropriate.

A. B. KAY


Dr Dintenfass believes that rheological phenomena should be understood by those who are interested in the diagnosis and prevention of both cardiovascular and malignant disease. He describes how blood viscosity changes in these conditions in very great detail and relates viscosity to blood groups. There are also short sections on haematological disorders with descriptions of sickle-cell anaemia and macroglobulinaemia. A useful appendix on instrumentation is included. This book will be of particular interest to research workers since it includes numerous graphs and tables of results. The author raises many points which rheologists will debate and his monograph will serve as a useful stimulus.

J. M. ENGLAND


This collection of light and electron microphotographs has been compiled for medical students and those beginning a career in pathology. The photographs are, with few exceptions, good, and it is a pleasant to browse through such a collection. However, in the rather full accompanying text there is little functional correlation, and the approach is excessively morphological, which is a poor beginning for junior pathologists. The book is expensive, reflecting the high