certain areas might have been advisable.

In conclusion, while this book will certainly be of help to the audience for which it is intended, one cannot but have certain serious reservations concerning its suitability for pathologists, both undergraduate and postgraduate.

G. B. D. SCOTT


As the fibrescopes proliferate, so the need for an authoritative and practical work on this subject increases. Now that the small intestine can be seen from both ends, and the intervening area can be biopsied under remote control, there is no part from which smaller and smaller biopsies cannot be taken and presented to the pathologist. Since many of the advances in this subject have been the product of clinical studies, this puts the pathologist on his mettle.

‘Mucosal biopsy of the gastrointestinal tract’ is comprehensive and reasonably short. The pathology and significance of gastritis is described and discussed in detail and the author’s classification will be known to readers of this Journal. Japanese workers have already demonstrated that by the critical use of radiology and multiple mucosal biopsy it is possible to identify and treat gastric carcinoma in the intramusosal stage, but the chapter on gastric epithelial dysplasia and early gastric carcinoma contains only a page of text. This is a chapter which one hopes will need expansion in the future. The rare conditions, including parasitic infestations, are well described and throughout the book the photomicrographs (many at × 70) are of a good quality.

In general hospitals mucosal biopsies tend to be taken for the assessment of malignancy in gastric ulceration; the investigation of malabsorption; the distinction between Crohn’s disease and ulcerative colitis; and the recognition of early carcinomatous change in the colon. Crohn’s colitis is well described but the section on precancerous changes of the colon is unlikely to solve all our problems. An attempt to clear away some of the confusion caused by the classification of small intestinal villous atrophy as partial or subtotal is welcome, but a close correlation with the dissecting microscope appearances and enzyme deficiencies is needed. The author’s aim of meeting the needs of the practising histopathologist is an impossible one, but has been achieved sufficiently to make this book the one to which we shall often turn.

R. A. B. DRURY.


This is the first of a two-volume third edition of a book first published in 1953. A second volume—on diagnosis, treatment, and prevention—is being prepared. Despite its general title, this first volume is concerned only with carcinogenesis (six chapters) and tumour-specific antigens (one chapter). Chapters on chemical carcinogenesis (B. L. Van Duuren, G. Witz, and A. Sivak) and naturally occurring carcinogens (G. N. Wogan) cover a lot of ground but not always in much detail or very critically. A further three chapters are concerned with two-stage theories of carcinogenesis. I. Berenblum who, with P. Shubik, wrote classical papers on this subject during the 1940s, speculates, unconvincingly, that tumour initiation results from the binding of chemical agents to nucleic acids and tumour promotion from their binding to cell proteins. More pragmatically, F. Homburger discusses ‘modifiers’ of carcinogenesis among which he includes cocarcinogens, factors which influence immune status, absorption, tissue concentrations, metabolism, excretion of carcinogens, and host factors such as age, sex, endocrine, and nutritional status. F. Stenbäck, H. Garcia, and P. Shubik cover some of the same ground in a generally more thoughtful contribution. W. H. Kirsten and S. B. Panem provide a useful contribution on viral oncogenesis while R. W. Baldwin competently but unexcitingly reviews tumour-specific antigens. Little attempt seems to have been made to coordinate the contributions from different sets of authors to an otherwise well-produced book which contains few facts or thoughts that are uniquely new.

FRANCIS J. C. ROE


The object of this work is to provide a comprehensive account of the pathology of the auditory system, stopping at the internal auditory meatus, so to speak, where the neurologists take over. The audience the author hoped for is the advanced student and in particular the postgraduate who is training in otolaryngology or pathology. His method is to proceed from without in, preceding any pathology by an account of the normal anatomy and histology supplemented as required by an extremely effective historical review. The study of the external ear and middle ear cleft is presented along logical traditional lines until one realizes at page 278 that the general pathology has not only been presented painlessly but that a very substantial account of otosclerosis has been included.

The pathology of the inner ear and deafness is really a monograph unifying the histopathology, audiology, and biochemistry of the disordered labyrinthine and vestibular systems, the whole copiously illustrated, prominently by electronmicrographs. Though Imrich Friedmann is an acknowledged master of electron microscopy in otology and in the experimental use of the tissue cultured otocyst he gives these topics no more than their due place. The whole work is characterized by judicious balance.

The bibliography and index are outstandingly good. The former is a necessary supplement to the inevitably sketchy chapter on neoplasia. The whole book is written in a style which makes for easy reading and comprehension. The detailed methodology in the third, technical, section will ensure its use by a wider market than the author envisaged.

This is an important contribution to pathology, which is recommended reading.

A. LEVENE


The cost of pathological investigations has, perhaps, been more in the forefront of the American doctor’s mind than in that of the average British doctor, but the state of the National Health Service is forcing us all to take a close look at the work we do in an attempt both to cut the cost and to improve the service to the patient. In this book the Director of Microbiology at Hartford Hospital, Connecticut, looks at quality, cost, and clinical relevance of the service provided by microbiological lab-