addressed at the teachers and examiners rather than at the content of the manuals.

It is a pity that references to the contents of pre-1960 first-aid boxes have not been omitted altogether. To mention gentian violet and other outdated contents in this edition seems quite unnecessary. The comments on pressure points and tourniquets deserve commendation and it is to be hoped that these will be adopted by the First Aid Organizations in the near future.

It would be helpful if the section on electric shock treatment was tied more closely to the recommendations on resuscitation. The mouth to mouth method is probably more deserving of special mention than a rocking stretcher, which may well not be available, and surely if it is believed that external cardiac massage is a technique suitable for use by first aiders, this is the place to draw attention to it. The description of cardiac massage is very sketchy and no mention is made of any of the dangers inherent to the method.

The accuracy of the statement 'voltage under 150-250 are not often fatal' must be queried; of 38 fatal electrical accidents in 1958, 20 were due to voltage up to 250, the majority from voltages between 200 and 250. It is usually accepted that there is a risk of electrocution above 150v, and the figures quoted by the authors may give workers a false sense of security when dealing with ordinary domestic voltage.

These are all minor points; this book continues to give an excellent background to the industrial first aider, although it is doubtful if six instruction periods are adequate.

J. R. Bowker


As a young man Haldane made the important discovery that breathing is regulated to a greater extent by carbon dioxide excess than by oxygen lack. This finding arose out of interest in the effects of overcrowding on health. It turned Haldane's attention to blackdamp which he found to contain about 12% CO₂ in nitrogen, and afterdamp, when he revealed the hazard from carbon monoxide after explosions in mines. This led him to develop oxygen breathing apparatus for rescue teams and to use small animals to monitor the atmosphere. These remarkable contributions to industrial hygiene are part of the debt we owe J. S. Haldane, the Centenary of whose birth was commemorated for the Physiological Society by a Symposium at Oxford.

The published proceedings start with a curriculum vitae, bibliography, and tribute by Professor C. G. Douglas which demonstrate the enormous range of Haldane's interest and achievement. Haldane published extensively in journals concerned with industry including Transactions of the Institute of Mining Engineers and the Journal of Hygiene, which he founded; he worked more in an industrial than academic environment and was for four years President of the Institute of Mining Engineers. These aspects of Haldane's life demonstrate the inter-relation of pure and applied science. They introduce the symposium which stemmed from his work. This was attended by 132 physiologists from 14 countries.

The bulk of the book consists of 27 papers and discussion which provide an authoritative description of control of normal breathing. Contributions on carotid glomus sensory mechanisms by Neil and Joels, arterial CO₂ and hydrogen ion as respiratory stimuli by Perkins, and papers on adaptation to high altitude seem to the reviewer to be particularly interesting; these subjects are pertinent to the regulation of breathing in patients with chronic lung disease which is not discussed.

The symposium contains hypotheses to explain the increase in ventilation on exercise, which are to some extent incompatible; it is evidence for the usefulness of the occasion that some have since been modified or restated (for example British Medical Bulletin, January 1963). Meanwhile the facts they seek to explain are summarized clearly in this account which can be recommended to all disciples of Haldane; if they are not yet interested in respiration this book should convert them.

J. E. Cotes


This is a short book based on a series of articles which appeared in The Practitioner and represents a practical approach to a group of every-day problems. The practice of rehabilitation is not itself restricted to the specialist in physical medicine, and this book is mainly directed towards the doctor interested in total patient care, but who lacks special training in rehabilitation. It is full of valuable advice for the general practitioner, industrial medical officer, hospital doctor, and all interested in problems of locomotor and physical disability. Almoners, occupational therapists, and social workers should also read this book. The most important sections are those on methods of achieving personal and domestic independence. The adaptation of simple and easily obtained apparatus, such as industrial hoists and overhead garage door track to enable the severely handicapped to transfer from bed to chair or bath, is clearly described and illustrated by well-chosen photographs and excellent line diagrams. All gadgets described are cheap, and work. Criticism may be directed towards the chapter on Treatment at Home, which is inadequate, and to the book's title. It would be better called Some Aspects of Rehabilitation, as it is far from being a complete outline of rehabilitation principles or rehabilitation practice. It is however a sensible book and can be strongly recommended to all interested in physical disability.

R. Harris