to solid substances. Great humidity of the soil and an necumulation of ground-water in its superficial Inyers are helieved to be important hreeding factors of the cholera germ. The conditions for the development and diffusion of cholera are a favorable medium for the multiplication of the germ, sufficient contact with the human organism, and personal susceptibility. Climatic conditions doubtless have a modifying influence on the spread of epidemics. The idea that cholera epidemics pursue a definite course from east to west has been for the most part abundoned, and it is now the current helief that the disease is spread by human agency, by the lines of traffic, through cases attacked, whose effects, particularly when the conditions of the ground-water, drinking-water, and their contact with human heings favor the development and action of the germs.

The theory that cholera is autocthonous, and mny arise under epidemic influence independently of a germ, cannot be sustnined by the evidence at hand. Very little importance need be attached to the theory that cholera is spread to great distances under certain conditions

of the atmosphere and with the winds.

Dr. Lawson's book is well worthy of perusal. It contains an imposing collection of facts which have nn important bearing on the spread of epidemics, with such generalizations as the evidence at hand have per-

mitted him to make.

His views upon the epidemiological aspects of yellow fever and cholera, especially the latter, should be rend in connection with the works of recent investigators, whose opinions in some important particulars are at variance with those which he advocates.

W. H. F.

THE ELECTRIC ILLUMINATION OF THE BLANDER AS A MEANS OF DIAGNOSIS OF ORSCURE VESICO-UNETHIAL DISEASES. By E. HURRY FENWICK, F.R.C.S., Surgeon (Out-patient) to St. Peter's Hospital for Stone and other Urinary Diseases; Assistant Surgeon to the London Hospital; Examiner in Elementary Physiology in the Conjoint Board in England of the Royal Colleges of Physicians and Surgeons; Assistant to the Lecturer on Physiology at the London Hospital Medical College. With thirty illustrations. 8vo. pp. 176. London: J. & A. Churchill, 1888.

The appearance of this excellent and praiseworthy monograph is very opportune. Heretofore, there has been no demand or want for such a work as this, which is destined to ereate that want, simply because the general profession, or even specialists, have scarcely yet bad time to become aware of the marvellous capabilities and practical advantages of the beautiful eystoscopes and urethroscopes which have recently been brought to such great perfection by Kitze, of Berlin, and Leiter, of Vienna. We had the pleasure of witnessing the accurate workings of these two instruments, shortly after their introduction at Berlin, a year since, and it is a matter of great regret that the use of such valuable adjuncts to diagnostic research are not yet in general use.

The work is cleverly written in n elear, attractive style, and the

author's enthusiasm is kept rigorously in check hy the confines of fact, and he has had a very large experience in the use of these instruments and with disorders of the vesico-urinary system. It will undouhtedly add to the reputation of the nuthor and demonstrate to the profession that they have now within their reach one of the most valuable additions to our armamentarium of instruments for the purposes of diagnosis and direction of accurate treatment that have been introduced since the

ophthalmoscope and laryngoscope.

Bearing in mind the acrimonious dispute hetween Nitze and his instrument maker, Leiter, Mr. Fenwick has been careful not to enter into the merits of that dispute further than to quote from the actual literature of the subject and to avoid all invidious distinctions, save that he considers the ideas of these two men as so closely interwoven in the development of the perfected instruments, that the name of either variety should he "Nitze-Leiter;" placing Nitze first, as it was he who first conceived the idea of illuminating the bladder; whilst to Leiter cer-

tainly heloags very great credit for its ingenious working out.

Chapters I., II., III. are devoted to an exceedingly interesting history of the evolution of endoscopy, from the first introduction of the method of visual exploration of the cavities of the human body by Nitze in 1879, through the period of the incandescent platinum loop and cooling apparatus, to the heautiful Nitze-Leiter clectric-light cystoscope of 1887. Hc regards the far-famed but discarded cystoscope of 1879 as having the same relation to that of 1887, as has the "Puffing Billy" of Stephenson to a modern locomotive, yet he does not helieve that the instrument is even now perfect, but that its working has come to such a practical point as to make it an indispensable factor in the diagnosis of

diseases of the urinary tract.

The following tweaty-five pages clearly and minutely describe the method of using the cystoscope, give several series of rules for the same purpose, enumerate the various physical and other requirements for successful exploration of the bladder, and end with a beautiful description of the picture which can so easily he had of the normal hladder through the electric cystoscope. Then succeed fifty pages of equally readable and instructive matter describing the appearances of the hladder pathologically changed by inflammation, tumors or when harhoring foreign bodies; and scattered through the text are the histories and cystoscopic pictures of many cases in which marvellously accurate diagnoses have heen made hy means of the cystoscope: most of them having heen positively and exactly confirmed hy subsequent operative relief. In one of these cases, a pia was seen sticking in the hladder wall. The cystoscope was withdrawn, and the foreign hody cleverly caught and removed hy n lithotrite. In another, nn encysted calculus, which had escaped observation during lithotomy, was most easily discovered by the visual examination afforded by the electric apparatus, and in yet another case, the true nature of an obstinate cystitis was hy its means discovered to he due to an ovariotomy suture coming partly through the hladder. and the patient was quickly relieved af her distress.

But most especially perhaps has the cystoscope heen found useful in the case of hladder tumors and morbid conditions of its wall, and the chapter which describes the appearances of disease of this class will be found to he one of the most interesting and important in the hook. The early diagnosis of malignant trouble has been so positively made out 612 REVIEWS.

hy the author as to lead him to desist from any cutting operation for purposes of either further diagnosis or relief. It is truly astonishing to find that so great accuracy has been nttained during the hrief time which has elapsed since the introduction of this instrument, and it would he a rash man who would at this time attempt to prophesy its limitations. The author concludes the first section of bis hook with the statement that cystoscopy "will hecome an important atom in the molecule of the diagnosis and treatment of obscure vesical disease, for it procures for us a visual examination of the bladder without a cutting operation. It will, therefore, rank immediately before, and in some cases supersede the operation of boutonnière, or Sir H. Thompson's digital exploration of the bladder."

The second division of the volume relates to a description of the Nitze-Leiter urethroscope, an account of the author's experience with it, its methods of use, capabilities, and the physiological and pathological appearances of the urethra, which, by its employment, are brought to sight. This instrument is also n very valuable perfect and simply working one, but, of course, its utility will always be superseded by that

of the cystoscope.

Two appendices and a bibliography of recent literature occupy the balance of the hook, and bring to an end one of the most useful and excellent monographs which have recently made their appearance. In the first appendix, very appropriately is given the history of the incaadescent electric lights of Edison and Swan, and in the second are recorded an additional series of illustrative cases which have heen subjected to cystoscopic examination and diagnosis.

T. S. K. M.