suitable for cultivation in beds and borders, whilst others may be used for adorning pergolas, arches, pillars, summer-houses, or other structures. Directions are given for cultivation and propagation, the process of budding being explained fully and illustrated with appropriate cuts. Those who are not familiar with the varieties will find the selections of roses for different purposes of great assistance in choosing those which will be most suitable for their particular gardens.

The text is large, bold print, and this being upon parchment paper, the convenience of the reader has been obviously studied. The coloured plates have been prepared from paintings of well-known artists, and many of them are pleasing, but others are too impressionist in character, particularly that representing a Dorothy Perkins rose growing upon old trees. The effect of the rosy crimson flowers is depicted, but one cannot in the least trace any rose foliage, and even the plant itself takes no shape, and, therefore, cannot be distinguished.

The second part contains the concluding portion of the letterpress on roses, and the remaining pages are devoted to bulbous plants. The third part is a continuation of the matter concerning bulbs. It contains excellent coloured plates of *Lilium speciosum*, "Christmas Roses and Glory of the Snow," and "Madonna Lilies and Roses." These are the best plates in the third part, and the figure of a church as the background to the last-mentioned picture is an agreeable and appropriate feature.

The Philosophical Basis of Religion; a Series of Lectures. By Dr. J. Watson. Pp. xxviii+485. (Glasgow: J. MacLehose and Sons, 1907.) Price 8s. 6d. net.

PROF. WATSON, who is already well known to philosophical students by his work on Kant, has, by the publication of this collection of lectures, laid a still larger circle of readers under an obligation. The recent congress at Oxford gave sufficient evidence of the present widespread interest in religion as a social phenomenon—an interest largely independent of any attitude towards its claims upon the individual. There will be many scientific students who will turn with profit to Prof. Watson's addresses—admirably lucid as they are, and agreeably free from technicalities for a treatment of the subject that forms an entirely necessary complement to the comparative method.

The author presents his argument as an attempt to solve the problem of re-building upon a basis of reason the theological beliefs which (he holds) no longer rest securely upon their ancient foundation of authority. The solution he develops takes the form of a "constructive idealism" based upon "the principle that the world is rational and is capable of being comprehended by us in virtue of the rationality which is our deepest and truest nature." The fulfilment of this programme necessitates an examination, first, of typical views on the nature and functions of dogma (such as those of Newman, Loisy, and Harnack), and, secondly, of certain current philosophical doctrines (personal idealism, the "new realism," and pragmatism) that offer solutions of the author's problem which for one reason or another he is unable to accept.

The layman will find Prof. Watson a fair-minded, an interesting, and, on the whole, a trustworthy guide in all these matters, as well as in the lectures on theological history which follow in somewhat loose connection with the rest. He should be warned, however, that the account of the "new realism" given in the fifth lecture contains elements that most of the supporters of that doctrine would repudiate.

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Every reader of the book will be grateful for the excellent summaries of the preceding argument which appear at the beginning of most of the lectures.

A Manual of Bacteriology, Clinical and Applied. By Prof. R. T. Hewlett. Third edition. Pp. xii+638. (London: J. and A. Churchill, 1908.) Price 10s. 6d. net.

THE publication of Prof. Hewlett's manual in its new edition serves to remind us of the enormous strides in our knowledge of bacteria which have been made within the last ten years. Bacteriology in its early days meant little more than the study of the morphology of the newly-discovered causes of disease and the search for those undiscovered. Then came the investigation of the poisons manufactured by the organisms; and now the bacteriologist is largely concerned with the substances whereby the organisms are controlled and defeated. Much of the new knowledge of bacteria has come with the discovery that the organisms once believed to be unique are in many cases only members of groups which number dozens or scores of individuals; and the aid of organic chemistry has been invoked to differentiate the members of these groups.

With this constantly widening field of work it has become increasingly difficult to give within a moderate compass an account of our present state of knowledge, and we can therefore all the more congratulate Prof. Hewlett on his success. Within the 600 pages of his book he has contrived to give an adequate account of the methods used in bacteriological research; of the morphology, appearances in culture, and distribution of the chief pathogenic bacteria; of bacterial toxins; of immunity, and the various methods by which it is sought; and, lastly, of the details of disinfection, and the examination of water, air, soil, and milk. He has wisely omitted many of the details of the more complicated methods, but wherever he has done so he has been careful to give a full reference to a source where the reader can obtain the information. In his treatment of some of the more recent work in bacteriology he, in our opinion quite properly, reserves his judgment of its value, while stating fully and fairly the claims advanced. Thus, for example, he still hesitates to accept without reserve the Treponema pallidium as the specific organism of syphilis, but adds that the majority of observers hold the opposite opinion strongly.

The illustrations are for the most part reproductions of actual photomicrographs, and are particularly well chosen and clear in outline. The only fault that we have to find with Prof. Hewlett is an occasional obscurity of language; in most instances the context removes any doubt as to his meaning, but in a few cases it is difficult to comprehend. Thus on p. 343 the language seems to imply that there were two dead men who recovered, and though, of course, that is not the meaning, the whole sentence remains obscure, even after the obvious correction has been made.

Ticks. A Monograph of the Ixodoidea. Part i. (Argasidæ). (London: Cambridge University Press, 1908.) Price 5s. net.

THE study of parasitic and disease-producing Protozoa, which has received such a great impetus of recent years, has caused much attention to be paid also to those groups of animals which, by their blood-sucking habits, are instrumental in transmitting the parasitic organisms from one vertebrate host to another. Ever since Smith and Kilborne first made known the $r\delta le$ of ticks in transmitting Texas-fever in cattle, much attention has been directed to this group of arachnids,