

Preface

The tools and techniques play an pivotal role in all the scientific investigations. Wealth of information is available regarding the use of different techniques in life sciences but unfortunately this scientific matter is in a dispersed state. No single book can be prescribed to the students which will embrace all the relevant procedures required to gain an insight into the field of life sciences. Moreover, the information is mostly documented in the foreign books and all these books may not be accessible to the students. The number of Indian authors in this line are relatively limited. A need was therefore felt to provide maximum information on this untouched field and that too under single cover so as to save the botheration of the students for the acquisition of the technical facts from the bewildering array of seemingly disjointed information.

The present book titled **Modern Tools and Techniques in Life Sciences** has been specially designed to meet the needs of the under-graduate and post-graduate students, teachers, laboratory technicians and research scholars. This publication responds to the long-felt need of documenting standard scientific procedures for the perusal of not only the students but also the technocrats. One of the desired goals of this text is to provide adequate knowledge of theory and practice of modern trends in the field of life sciences and research. The coverage of the topics is extensive than would be required to meet the need of qualifying examination in science.

This book is not prepared by focussing on a syllabus of a particular university but has been devised as a multipurpose guidance book for the practical work bridging the gap between theory and practice. The book does not claim to be an original contribution. It is an compilation of the well-established procedures which will be a constant source of reference for many. The book should be of use anywhere over the globe since a science student has to have the practical and technical knowledge along with the theoretical information.

The book clearly deviates from other books since it comprises of six apparently varied and unrelated sections such as Microtechnique, Microbiology, Museology, Photography and Endocrinology. However, the unifying theme of the various sections is to focus on the know-how of the various techniques and provide carefully selected information so that scientific concepts are assimilated more easily. The contents of the book are supplemented with appropriate diagrams and tables and the key terms are printed in boldface type where they have appeared first in the text.

It is expected that the book will be well-received by the readers considering the wide range of techniques and the underlying principles discussed therein. The book should grace any shelf in the library of an educational institute where progress in science continues.

— Author.