

Fundamentals of Biochemical Calculations

Second Edition

Fundamentals of Biochemical Calculations, Second Edition demystifies the fundamental calculations used in modern biochemistry, cell biology, and allied biomedical sciences. The book encourages both undergraduates and scientists to develop an understanding of the processes involved in performing biochemical calculations, rather than rely on memorized formulae. All chapters contain solved problems that show detailed calculation steps, useful comments, and mathematical hints.

Encouraging the use of the Ratio Method, the author draws attention to its applicability to a wide variety of biochemistry problems with logical consistency and intuitive ease. Entirely revised and updated, this **Second Edition** introduces three new chapters with coverage of laboratory-oriented calculations and data presentation, calculations relating to the emerging techniques in DNA and molecular biology, and applying the Ratio Method to pharmaceutical calculations. In addition, every chapter contains new questions and extra tips to help students gain confidence in performing biochemical calculations on their own.

Features

- Reinforces students' understanding of fundamental concepts in chemistry/biochemistry, quantitative methods, mathematics, reasoning skills, and scientific report writing
- Achieves a user-friendly style and ground-up approach, reflecting the author's own teaching experience of over three decades
- Presents new chapters on calculations related to biochemistry laboratory work, emerging techniques in molecular biology, and pharmacy
- Contains over 300 solved problems including step-by-step calculations, helpful comments, and mathematical hints
- Provides a supplementary CD-ROM with additional questions and solutions for gauging students' understanding and progress, available to instructors with qualifying course adoptions

By strengthening their understanding of mathematical logic and problem solving skills, *Fundamentals of Biochemical Calculations, Second Edition* enables students and biochemists to explore a wider range of real-world applications with the ability to tackle increasingly complex problems in biochemistry and related fields.

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