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Biology for Engineers

Arthur T. Johnson

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Biology is a critical application area for engineering analysis and design, and students in engineering programs must be well-versed in the fundamentals of biology as they relate to their field. **Biology for Engineers** is an introductory text that minimizes unnecessary memorization of connections and classifications and instead emphasizes concepts, technology, and the utilization of living things. Whether students are headed toward a bio-related engineering degree or one of the more traditional majors, biology is so important that all engineering students should know how living things work and act.

Classroom-tested at the University of Maryland, this comprehensive text introduces concepts and terminology needed to understand more advanced biology literature. Filled with practical detailed examples, the book presents:

- Scientific principles relevant to biology that all engineers must know
- A discussion of biological responses from the perspective of a broad range of fields such as psychology, human factors, genetics, plant and animal physiology, imaging, control systems, actuary, and medicine
- A thorough examination of the scaling of biological responses and attributes
- A classification of different types of applications related to biological systems
- Tables of useful information that are nearly impossible to find elsewhere
- A series of questions at the end of each chapter to test comprehension

Emphasizing the ever-present interactions between a biological unit and its physical, chemical, and biological environments, the book provides ample instruction on the basics of physics, chemistry, mathematics, and engineering. It brings together all of the concepts one needs to understand the role of biology in modern technology.

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