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biochemistry the molecular basis of life is an intermediate one semester text written for students on degree pathways in chemistry biology and other health and life sciences designed for students who need a solid introduction to biochemistry but are not specializing in the subject the text focuses on essential biochemical principles that underpin the modern life sciences and offers the most balanced coverage of chemistry and biology of any text on the market the text equips students with a complete view of the living state emphasizes problem solving and applies biochemical principles to the fields of health agriculture engineering and forensics to show students the relevance of their learning mckee and mckee is respected for its balance of biology and chemistry consistently placing biochemical principles into the context of the physiology of the cell and biomedical applications

the papers in this book are united by a common tendency to elucidate the structural functional regulatory relationships in biochemical systems on different levels of material organisation contents include problems on cell metabolism integration biochemical organisation of energy metabolism in muscle chemical organisation of supramolecular biostructures structural regularity in the pattern of metabolic reaction network enzymic proteins in organisation of chemosignalling systems stimulus response coupling

this book presents the latest research on aquaculture which is the cultivation of aquatic organisms unlike fishing aquaculture also known as aquafarming implies the cultivation of aquatic populations under controlled conditions mariculture refers to aquaculture practised in marine environments particular kinds of aquaculture include algaculture the production of kelp seaweed and other algae fish farming shrimp farming shellfish farming and the growing of cultured pearls

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