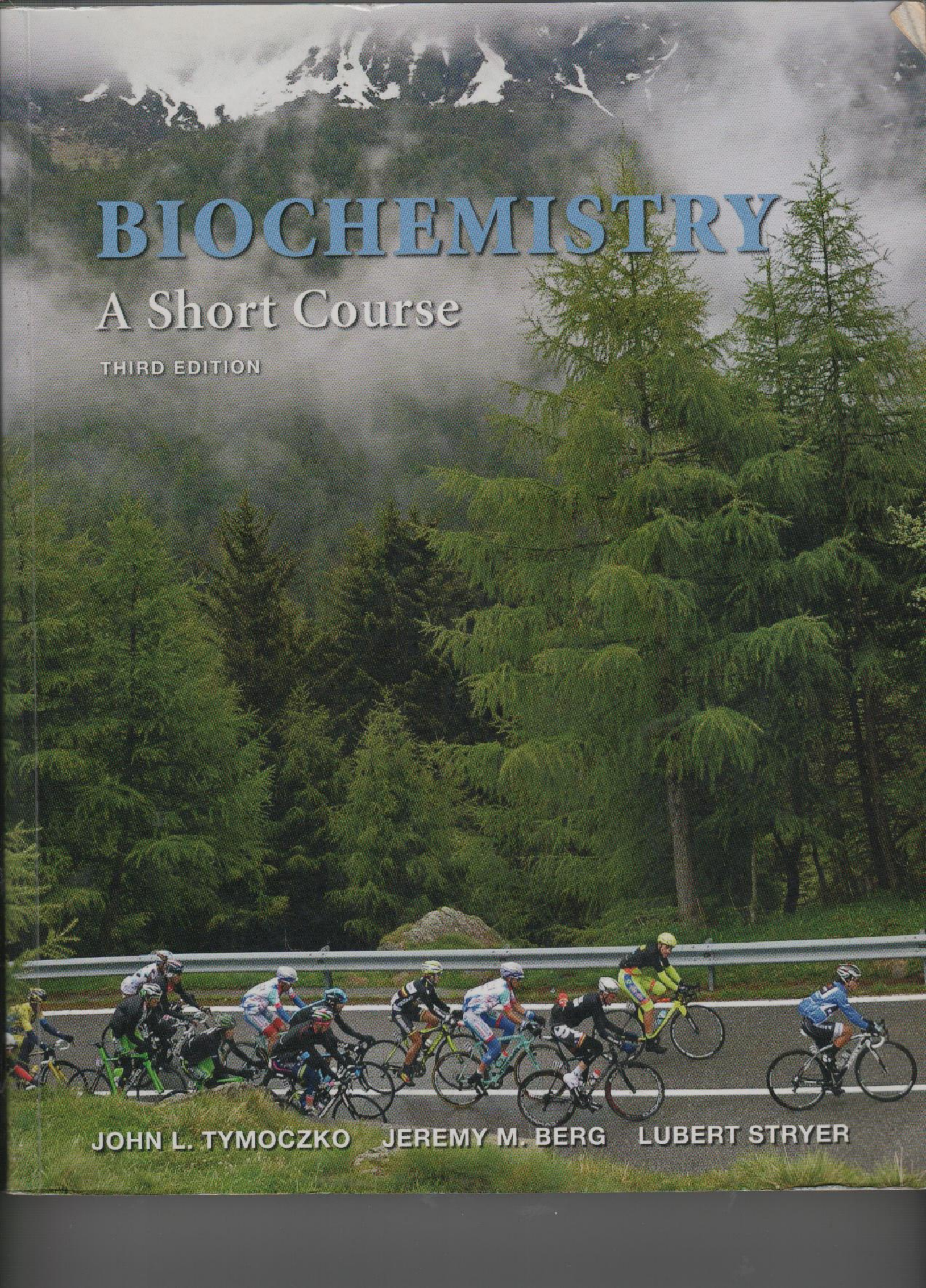




BIOCHEMISTRY

A Short Course

THIRD EDITION

JOHN L. TYMOCZKO JEREMY M. BERG LUBERT STRYER

ABOUT THE COVER

Riders on the 16th stage of the 2014 Giro d'Italia pedal up one of the climbs between Ponte di Legno and Val Martello. The cyclists' energy expenditure connects them, through a series of metabolic pathways, to many other living things. Most significant are the photosynthetic organisms—the grasses in the foreground, the trees in the background, and their grain-crop relatives—that are ultimately responsible for synthesizing the fuels and generating the oxygen that allow the cyclists, and all aerobic organisms, to power their lives. In this textbook, we examine the biochemical underpinnings of life that sustain our every activity and enable us to experience the world.

**W. H.
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