1. Problem 2.3.10 in the book.

2. A multigraph $H$ is almost $k$-edge-connected if for at most one nontrivial partition $\{A, B\}$ of $V(H)$, the number of edges connecting $A$ with $B$ is less than $k$. Prove that for every odd $d \geq 7$ every almost $\lceil d/3 \rceil$-edge-connected multigraph has a 3-factor.


4. Problem 3.1.41 (a) and (b) in the book.

5. Problem 3.2.19 in the book.

6. Problem 3.2.43 in the book.