

List of corrections to Tom's notes:

PROPOSITION 2.5.11 ON PAGE 41

The word *compact* is missing. The correct statement is:

Proposition 2.5.11 *Let K be a bounded subset of a compact metric space. Then K is totally bounded.*

THEOREM 3.4.2 ON PAGE 60

In the first line of the theorem, the interval where \mathbf{f} is defined is wrong. The correct statement is:

Theorem 3.4.2 *Assume that $\mathbf{y}_0 \in \mathbb{R}^n$ and that $\mathbf{f}: [0, \infty) \times \mathbb{R}^n \rightarrow \mathbb{R}^n$ is continuous and uniformly Lipschitz on $[0, \infty)$. Then the initial value problem*

$$\mathbf{y}'(t) = \mathbf{f}(t, \mathbf{y}(t)) \quad \mathbf{y}(0) = \mathbf{y}_0$$

has a unique solution on $[0, \infty)$.