Additions to Second Edition Errata and Comments

November 26, 2002

Once again, many thanks to Phillip Burns and Harry Hirsch for pointing out these errors.

Page 321 Equation 3.2.19 should end with $= \mathbf{0}$:

$$[D_{j_1}\mathbf{F}(\mathbf{c}),\dots,D_{j_{n-k}}\mathbf{F}(\mathbf{c})]\dot{\mathbf{x}}+[D_{i_1}\mathbf{F}(\mathbf{c}),\dots,D_{i_k}\mathbf{F}(\mathbf{c})]\dot{\mathbf{y}}=\mathbf{0}.$$

Page 440 Second paragraph of the proof of Lemma 4.4.6: $|\mathbf{x}_j-\mathbf{y}_j|$, not $|f(\mathbf{x}_j)-f(\mathbf{y}_j)|$:

"Since $|\mathbf{x}_j-\mathbf{y}_j|\to 0$ as $j\to\infty$, the subsequence $\mathbf{y}_{j_k}$ also converges to $\mathbf{p}$."

The next paragraph would perhaps be clearer if the first sentence were:

"The function f is certainly not continuous at $\mathbf{p}$, so $\mathbf{p}$ has to be in a particular box, which we will call B_p."

Page 459 In Equation 4.6.14, the sum on the right should start at $i=1$, not $i=-k$:

$$\int_{-1}^{1} f(x)\,dx \approx \sum_{i=1}^{k} w_i\big(f(x_i)+f(-x_i)\big),$$

Page 502 Line 5: "in this case we can solve $xy=u$", not "in this case we can solve $y=u/v$".

Page 562 The righthand side of Equation 6.1.14 should be

$$\sum_{i=1}^{k-1} a_i\varphi(\vec{\mathbf{v}}_1,\dots,\vec{\mathbf{v}}_{k-1},\vec{\mathbf{v}}_i).$$

The first term is $a_1 1\phi(\vec{\mathbf{v}}_1,...,\vec{\mathbf{v}}_{k-1},\vec{\mathbf{v}}_1)$, the second is $a_2\phi(\vec{\mathbf{v}}_1,\vec{\mathbf{v}}_2,...,\vec{\mathbf{v}}_{k-1},\vec{\mathbf{v}}_2)$, and so on.