Corrections first edition:

p. 110: Caption Figure 3.3.2: Two non–Lipschitzian domains

p. 196: S. Mikhailov informed us that Lemma 5.1.1 on page 197 needs to be corrected. Due to his results in [207] replace the last 6 lines on page 196 by:

Here the space $\widetilde{H}_0^{-1}(\Omega) \subset \widetilde{H}^{-1}(\Omega) = \{f \in H^{-1}(\mathbb{R}^n)$ with $\operatorname{supp} \mathrm{f} \subseteq \overline{\Omega}$ will consist of all

$$f = f_1 + f_2 \text{where} f_1 \in \widetilde{H}^{-1}(\Omega) \,\text{with}\, \operatorname{supp} \mathrm{f}_1 \Subset \Omega \quad \text{and } f_2 \in \widetilde{H}^t(\Omega), t \geq -\frac{1}{2} \tag{5.1.6}$$

equipped with the norm $\inf\{\|f_1\|_{\widetilde{H}^{-1}(\Omega)} + \|f_2\|_{\widetilde{H}^t(\Omega)}\}$.

p. 197: line -9 supplement by:
If f is given as in (5.1.6) then the definition ...
After line -8 insert:
For $f \in \widetilde{H}^{-1}(\Omega)$ set in (5.1.7) $\int\limits_\Omega (Pu)^\top \mathcal{Z} v dx = (f, \mathcal{Z}v)$ and approximate u in $H^1(\Omega)$ and f in $\widetilde{H}^{-1}(\Omega)$ by the distributions in $\widetilde{H}_0^{-1}(\Omega)$ characterized in (5.1.6). Then $\tau \in H^{-\frac{1}{2}}(\Gamma)$ is the well defined limit but it now depends not only on u in Ω but also on f; since the extension of $Pu \in H^{-1}(\Omega)$ to $f \in \widetilde{H}^{-1}(\Omega)$ is not unique (see McLean [203, Lemma 4.3] and Mikhailov [207, Lemma 6]).

p. 604: Reference 128: Supplement "Hörmander, L.:"

Corrections Second Edition 2021

- Preface to the second edition line-16: Change the hyphen in the word pseudod–ifferential to pseudo–differential.
- Page 46, formula (2.2.8): Write $T_y(x,y)E(x,y)$.
- Page 55, line-1 in formula (2.2.41) write $\frac{1}{2}\sigma - K'\sigma = D\varphi$ and write displacement.
- Page 186 line 9: j is running from 0,
  line -8 write:P_d instead of P_α.
- Page 187 in Theorem 4.2.7 write exponent $m + \sigma - \frac{1}{2}$
  at the end of Theorem 4.2.7 write $\frac{\partial^{m-1}u}{\partial_n^{m-1}}$.
- Page 188 line-2 write small z_1.
- Page 195: In formula (4.5.4) write: div:
  line (4.5.4)+1 write: $f \in L_0^2(\Omega)$ and delete $\mathbf{u}_f$,
  line (4.5.4)+2 write $\mathbf{u}_f \in \mathbf{H}_0^1(\Omega)$ satisfying
- Page 303 write: The operators $\frac{1}{2}I \pm K$ and $\frac{1}{2}I \pm K'$
  Formula (5.6.41): $\| \dots \|_{V^{-1}} \leq \dots$
  In formula (5.5.41) the index above is $+\frac{1}{2}$ twice.
- Page 650 in formula (10.3.30), second line, write $\mathcal{M}\big(\partial_x, n(x)\big)$,
  in the third line cancel the symbol I.