

Corrections for 2nd printing of ILES Book, Cambridge 2007

1. Back cover, line 2 after cover illustrations line: replace “Jay Boris, Fernando Grinstein, Gopal Patnaik, and Oscar Parmhed” with “Gopal Patnaik and Jay Boris”.
2. Back cover, lines 4-5 after cover illustrations line: replace “ Drs. Christer Fureby, Mattias Liefvendahl, Urban Svennberg, Leif Persson, and Tobias Persson” with “Dr. Christer Fureby”.
3. Page 43, lines 17-18 from the top: replace “between certain NFV schemes and the explicit SGS models” with “between the effects of certain NFV schemes and those of explicit SGS models”.
4. Page 121, line 13 from the bottom: replace “16][2+” with “8][1+”.
5. Page 121, line 14 from the bottom: replace “100 m/s” with “10,000 cm/s”.
6. Page 122, line 5 after the figure caption, replace “2006” with “2007”.
7. Page 121, lines 10-11 from the bottom: replace “ $\langle(\mathbf{v}-\langle\mathbf{v}\rangle)^2\rangle$ ” with “ $\langle\mathbf{v}^2\rangle$ ”.
8. Page 127, line 15 from the top: replace “, in press” with “**8**, 020”.
9. Page 540, lines 14-15 from the top: replace “simulation simulations” with “simulation”.
10. Page 499, lines 23-24 from the top: replace “31, in press” with “**31**, 3107-3114”.
11. Page 499, line 22 from the top: replace “2006” with “2007”.
12. Page 47, equation without number on line 5 from the bottom, should have factor $\frac{1}{\Delta x \Delta y}$ in front of integral as in eq. (2.8).
13. Page 49, equation (2.16), all four integrals should have factor $\frac{1}{\Delta x \Delta y}$ in front as in eq. (2.8).
14. Page 302, line 6 from the bottom, replace “ $v_t = c_\mu k^2 /$ ” with “ $v_t = c_\mu k^2 / \varepsilon$ ”.
15. Page 302, line 4 from the bottom, replace “ is its dissipation” with “ ε is its dissipation”.

16. Page 302, line 4 from the bottom, replace “ $k -$ ” with “ $k - \varepsilon$ ”.
17. Page 302, line 1 from the bottom (on eq. 10.2), please insert all four “ ε ” that are missing, should be as follows:

$$\nabla \cdot (\varepsilon < \mathbf{v} >) = P_\varepsilon + [(v + v_t / \sigma_\varepsilon) \nabla \varepsilon] - R$$

18. Page 302, line 2 from the bottom (on eq. 10.2), please insert the “ ε ” that is missing, should be as follows:

$$\nabla \cdot (k < \mathbf{v} >) = P_k + [(v + v_t / \sigma_k) \nabla k] - \varepsilon$$

19. Page 303, lines 1-2 from the top, please insert the “ ε ” that is missing, replace “ $R = c_2^{-2}$ ” with “ $R = c_2 \varepsilon^2$ ”.

20. Page 303, line 7 from the top, please insert the “ ε ” that is missing, replace

$$v_t = c_\mu k^2 / \quad \text{with} \quad v_t = c_\mu k^2 / \varepsilon.$$

21. Page 303, line 7 from the bottom, please insert an “ ε ” that is missing, replace “ $(\mu_k \nabla k) +$ ” with “ $(\mu_k \nabla k) + \varepsilon$ ”.

22. Page 303, line 7 from the bottom, please insert an “ ε ” that is missing, replace

$$= c k^{3/2} / \Delta \quad \text{with} \quad \varepsilon = c k^{3/2} / \Delta.$$

23. Page 304, line 8 from the top, replace “ $= c k^{3/2} / \Delta$ ” with “ $\varepsilon = c k^{3/2} / \Delta$ ”.

24. Page 321, line 11 from below, replace “aircrafts” with “aircraft”.

25. Page 331, on eq. (11.21), replace “ $\bar{\rho} +$ ” with “ $\bar{\rho} \varepsilon +$ ”.

26. Page 331, line after eq. (11.21), replace “dissipation, ,” with “dissipation, ε ”.

27. Page 331, on eq. (11.22), replace “ $= C \frac{\widetilde{k^{3/2}}}{\Delta}$ ” with “ $\varepsilon = C \frac{\widetilde{k^{3/2}}}{\Delta}$ ”.

28. Page 336, line 3 from the bottom, replace “hexagon” with “hexaedron”.

29. Page 372, line 1 from the bottom, replace “()” with “(ε)”.

30. Page 373, line 5 from the bottom, replace “ $k -$ ” with “ $k - \varepsilon$ ”.

31. Page 374, line 3 from the bottom, replace “parameter, ,” with “parameter, ϵ ,”.
32. Page 375, lines 7-8 from the bottom, replace “when is increased” with “when ϵ is increased”.
33. Page 375, line 4 from the bottom, replace “of values” with “of ϵ values”.
34. Page 377, line 2 after the figure caption, replace “the coefficient, ,” with “the coefficient, ϵ ,”.
35. Page 377, line 3 after the figure caption, replace “ , to impose” with “ ϵ , to impose”.
36. Page 379, line 5 from the bottom, replace “ = 0.25” with “ ϵ = 0.25”.
37. Page 381, line 2 after the figure caption, replace “ = 0.35” with “ ϵ = 0.35”.
38. Page 386, line 17 from the bottom, replace “forces” with “force”.
39. Page 387, figure caption of figure 12.23, replace “Pitching moment” with “Normal force”.
40. Page 400, line 18 from the bottom, replace “ where is a constant” with “ where ϵ is a constant”.
41. Page 400, line 13 from the bottom, replace “ = 0.00025” with “ ϵ = 0.00025”.
42. Page 401, line 10 from below, replace “there is now” with “there is no”.
43. Page 470, line 23 from below, replace “aircrafts” with “aircraft”.