

Corrections

Chapter 1:

- Page 4, Equation 1.6:
instead of “1 J (Joule) = 1 Ws = 1 Nm = 1 kg · m/s²“
it has to be: “1 J (Joule) = 1 Ws = 1 Nm = 1 kg · m²/s² “

Chapter 2:

- Page 31:
instead of „ ... are situated on 0° latitude”
it has to be: “ ... are situated on 0° longitude “
- Page 48:
instead of „Belfast has a latitude of...”
it has to be: “Belfast has a longitude of...”

Chapter 3:

- Page 51, above Equation 3.7:
instead of “ $\Delta t = v_D \cdot l$ ” it has to be: “ $\Delta t = v_D / l$ ”

Chapter 4:

- Page 82, Equation 4.26:
instead of “= 0.4 ... 0,5 %/K” it has to be: “= -(0.4 ... 0,5 %)/K”
- Page 83, Figure 4.14(b):
Instead of “ I_P ” it has to be: “ I_{Sh} ”
- Page 86, above Equation 4.36:
instead of “the current I_D can be ignored compared to I_{Sh} .”
it has to be: “the current I_{Sh} can be ignored compared to I_D .”

Chapter 5:

- Page 100, Formula:
Instead of “ $Si + 3HCl \rightarrow SiHCl_3 + Si + H_2$ ” it has to be “ $Si + 3HCl \rightarrow SiHCl_3 + H_2$ ”
- Page 116, Figure 5.21:
plus and minus sign at the connectors have to be swapped.
- Page 117, Figure 5.21:
plus and minus sign at the connectors have to be swapped.

Chapter 9:

- Page 227, Example 9.2:
instead of „ $d_{Min} = 2,48$ m“
it has to be: „ $d_{Min} = 2,26$ m“

instead of „area utilization ration of 34 % and 45 % respectively“

it has to be:

„area utilization ration of 34 % and 44 % respectively“

instead of „approximately 32 % more“

it has to be:

instead of „approximately 29 % more“

Chapter 10:

- Page 285, Theoretical Potential:

instead of “With a surface area of the Federal Republic of Germany of 357 000 km² we obtain a theoretical potential of 375 10¹² kW h. This corresponds to about 100 times the overall primary energy requirement of Germany!”

it has to be:

“With a surface area of the Federal Republic of Germany of 357 000 km² we obtain a theoretical potential of 357 10¹² kW h. This corresponds to almost 100 times the overall primary energy requirement of Germany!”

- Page 244, Example 9.2:

instead of „We will therefore set the utilization factor to 45 %”

it has to be: „We will therefore set the utilization factor to about 45 %”

Chapter 11:

- Page 258, Exercise 2.1 b):

instead of „from Mars“ it has to be: „from Mercury“

instead of „from Earth“ it has to be: „from Sun”