

ERRATA AND CORRECTIONS

to 2012 edition of

Using SI Units in Astronomy

by Richard Dodd.

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PREFACE

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ACKNOWLEDGEMENTS

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CHAPTER 1: INTRODUCTION

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CHAPTER 2: AN INTRODUCTION TO SI UNITS

Pp 14 Table 2.3 Entry for "watt" under "other SI" should read $\text{J} \cdot \text{s}^{-1}$

Pp 15 Table 2.4 Entry for "electric flux density" under "symbol" should read $\text{C} \cdot \text{m}^{-2}$

Pp 17 First line after table 2.9 "...of suitable theories)," delete)

Pp 21 Table 2.13 Entry "solar mass" insert space after 10^{30} should be 10^{30} kg

Pp 23 §2.6.5 line 1 ...the logarithm of the ratio... not ...the ratio of the logarithm...

CHAPTER 3: DIMENSIONAL ANALYSIS

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CHAPTER 4: UNIT OF ANGULAR MEASURE (RADIAN)

Pp 30 §4.1 line 5 ... $\frac{AB}{OA}$ not ... $\frac{\overrightarrow{AB}}{\overrightarrow{OA}}$

Pp 30 §4.1 line 6 ...AB not ... $\overrightarrow{AB}$

Pp 31 Last line should read

$$5 \times 0.261\,799 + 16 \times 0.004\,363 + 41.36 \times 0.000\,073$$

Pp 32 2 lines up from the bottom should read $10^{-26} \text{ W} \cdot \text{m}^{-2} \cdot \text{Hz}^{-1}$ not
 $10^{-26} \text{ Wm}^{-2} \text{Hz}^{-1}$

Pp 44 7 lines up from the bottom change β_{SEP} to 1.969 851

Pp 47 §4.42 line 4 $\text{arcsec} \cdot \text{mm}^{-1}$ not arcsec mm^{-1} and $\mu\text{rad} \cdot \text{mm}^{-1}$ not
 $\mu\text{rad mm}^{-1}$

CHAPTER 5: UNIT OF TIME (SECOND)

Pp 63 line 15 $-8.388 \text{ d} \cdot 14 \text{ rad} \cdot \text{s}^{-1}$ not $-8.388 \text{ d} \cdot 14 \text{ rad} \cdot \text{s}^{-1}$

CHAPTER 6: UNIT OF LENGTH (METRE)

Pp 73 line 14 1995): not 1995).

Pp 75 9 lines from the bottom replace ...cubes of their mean distances from
the Sun by ...cubes of their orbital semi-major axes

Pp 75 6 lines from the bottom replace ...and a mean solar distance... by
...and an orbital semi-major axis of...

Pp 75 1 line up from the bottom replace ...and a is its mean distance from
the Sun... by ...and a is the orbital semi-major axis...

Pp 84 line 12 reference should read ...Evensen *et al.* not ...Evenson *et al.*

CHAPTER 7: UNIT OF MASS (KILOGRAM)

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CHAPTER 8: UNIT OF LUMINOUS INTENSITY (CANDELA)

Pp 116 11 lines from bottom of page $\dots W \cdot \text{cm}^{-2} \cdot \text{Hz}^{-1}$ not $\dots W \cdot \text{cm}^{-2} \text{Hz}^{-1}$

Pp 116 10 lines from bottom of page $\dots W \cdot \text{cm}^{-2} \cdot \mu\text{m}^{-1}$ not $\dots W \text{cm}^{-2} \mu\text{m}^{-1}$

Pp 133 9 lines from the bottom $\dots (\text{Jy} \cdot \text{sr}^{-1})$ not $\dots (\text{Jy} \cdot \text{rad}^{-1})$

Pp 136 line 15 $\dots \text{particles} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$ not $\dots \text{particles} \cdot \text{m}^{-1} \cdot \text{s}^{-1}$

CHAPTER 9: UNIT OF THERMODYNAMIC TEMPERATURE (KELVIN)

Pp 149 7 lines from the bottom of page $W \cdot \text{m}^{-2} \cdot \text{K}^{-4}$ not $W \cdot \text{m}^{-2} \text{K}^{-4}$

Pp 157 Figure 9.2 Y-axis should read: energy levels 10^{-18} J not 10^{-18} J

X-axis numbers and ticks should be removed

If possible the figure should be made a little larger to improve clarity

Pp 159 Equation 9.42 remove unwanted bracket i.e. $(2 \pi m_e)^{\frac{3}{2}}$ not $(2 \pi m_e)^{\frac{3}{2}}$

CHAPTER 10: UNIT OF ELECTRIC CURRENT (AMPERE)

Pp 182 6 lines up from the bottom of the page $\dots \text{submultiple of the gauss} \dots$

not $\dots \text{submultiple of the gaussian} \dots$

CHAPTER 11: UNIT OF AMOUNT OF SUBSTANCE (MOLE)

Pp 203 Equation 11.16 should read:

$$-\frac{d N_A}{d t} = -\frac{d N_{BC}}{d t} = -\frac{d N_{AB}}{d t} = -\frac{d N_C}{d t} = k N_A N_{BC}$$

CHAPTER 12: ASTRONOMICAL TAXONOMY

Pp 206 3 lines from the bottom of the page: ...particulate material not
...particular material

REFERENCES

Pp 219 line 2 ...space telescope. not ...space telescope

Pp 219 10 lines from the bottom of the page: Atwood, W.B., not Atwood,
W.B.

Pp 221 11 lines from the bottom of the page: ...reference publication 1294.
not ...reference publication, p. 1294.

Pp 222 line 14 Hohle, M.M., not Hohle, M.M.

Pp 222 line 23 Yi, Z.-H. & not Yi, Z.-H., &

Pp 224 16 lines from the bottom of the page: Stencel, R.E., not Stencel,
R.E.

Pp 225 20 lines from the bottom of the page: Wurz, P., not Wurz, P.

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