

Erratum to: The Power of q

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Erratum to:
M.D. Hirschhorn, *The Power of q , Developments*
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The following changes have been made to the text.

In the preface, page xiii, line 23, “than $p(N)$ ” has been corrected to “then $p(N)$ ”.

The font used in Chapter 1 for ϕ and ψ has been changed to accord with the font used in later chapters.

In Chapter 1, page 12

$$\begin{bmatrix} 0 \\ 0 \end{bmatrix}_0 \text{ has been corrected to } \begin{bmatrix} 0 \\ 0 \end{bmatrix}_q$$

The updated online version of these chapters can be found at

https://doi.org/10.1007/978-3-319-57762-3_1

https://doi.org/10.1007/978-3-319-57762-3_3

https://doi.org/10.1007/978-3-319-57762-3_6

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https://doi.org/10.1007/978-3-319-57762-3_34

https://doi.org/10.1007/978-3-319-57762-3_35

https://doi.org/10.1007/978-3-319-57762-3_36

https://doi.org/10.1007/978-3-319-57762-3_37

https://doi.org/10.1007/978-3-319-57762-3_38

In Chapter 3, equation (3.4.2),

$$\frac{(q^3; q^3)_\infty^3}{(q; q)_\infty^7} \text{ has been corrected to } \frac{((q; q)_\infty^3)^2}{(q; q)_\infty^7}$$

In Chapter 6, in equations (6.6.6) and (6.6.7) and the Exercise at the top of page 68, the $(-2)^x$ has been corrected to $(-2)^{x-1}$.

In Chapter 10, below the equation (10.7.6), the word “**Exercise**” has been moved to the next line.

In Chapter 10, page 99, “differentin” has been corrected to “different in”

In Chapter 12, page 118,

$$(q^{22}, q^{33}, q^{44}, q^{55}, q^{66}, q^{77}, q^{88}, q^{88}; q^{121})_\infty$$

has been corrected to

$$(q^{22}, q^{33}, q^{44}, q^{55}, q^{66}, q^{77}, q^{88}, q^{99}; q^{121})_\infty$$

In Chapter 17, page 161, “equivalent to (17.1.1)” has been corrected to “equivalent to (17.1.1) and (17.1.2)”

In Chapter 30, page 274,

$$= 32 \left(\begin{matrix} q^3, q^4, q^4, q^8, q^9, q^{12}, q^{12}, q^{12}, q^{15}, q^{16}, q^{20}, q^{20}, q^{21}, q^{24}, q^{24}, q^{24} \\ q, q^2, q^2, q^5, q^7, q^{10}, q^{10}, q^{11}, q^{13}, q^{14}, q^{14}, q^{17}, q^{19}, q^{22}, q^{22}, q^{23}; q^{24} \end{matrix} \right)_\infty \cdot$$

has been corrected to

$$= 32 \left(\begin{matrix} q^3, q^4, q^4, q^8, q^9, q^{12}, q^{12}, q^{12}, q^{15}, q^{16}, q^{20}, q^{20}, q^{21}, q^{24}, q^{24}, q^{24} \\ q, q^2, q^2, q^5, q^7, q^{10}, q^{10}, q^{11}, q^{13}, q^{14}, q^{14}, q^{17}, q^{19}, q^{22}, q^{22}, q^{23}; q^{24} \end{matrix} \right)_\infty \cdot$$

In Chapter 30, page 276, the second occurrence of the line

$$\times ((\phi(q^{12}) + 2q^3\psi(q^{24}))\psi(q^4) + q(\phi(q^4) + 2q\psi(q^8))\psi(q^{12}))$$

is incorrect, and has been corrected to

$$\times (\phi(q^{12})\psi(q^4) + 2q^2\psi(q^8)\psi(q^{12}) + q(\phi(q^4)\psi(q^{12}) + 2q^2\psi(q^4)\psi(q^{24})))$$

In Chapter 34, page 313,

$$= 4(q, q^2, q^3, q^4, q^4, q^6, q^7, q^8, q^9, q^{10}, q^{10})$$

has been corrected to

$$= 4(q, q^2, q^3, q^4, q^4, q^6, q^7, q^8, q^9, q^{10}, q^{10},$$

In Chapter 35, equation (35.1.4), $(1 + qt)^{\frac{1}{4}}$ has been corrected to $(1 + qt)^{\frac{1}{2}}$.

In equation (35.1.5), $(1 + 2qt)^{\frac{1}{2}}$ has been corrected to $(1 + 2qt)^{\frac{1}{4}}$.

In Chapter 36, equation (36.2.6)

$$64 \frac{\psi(q)^7}{\phi(-q^2)^8} \text{ has been corrected to } 64 \frac{\psi(q)^7}{\phi(-q)^8}$$

In Chapter 37, equation (37.3.5)

$$\frac{abc + q^5 c^3}{\phi(q^5)} \text{ has been corrected to } \frac{abc + q^5 c^3}{\psi(q^5)}$$

$$\frac{c(ab + q^5 c^2)}{\phi(q^5)^2} \text{ has been corrected to } \frac{c(ab + q^5 c^2)}{\psi(q^5)}$$

In Chapter 38, page 354,

$$\frac{(q^2; q^2)_{\infty}^3 (q^3; q^3)_{\infty}^3 (q^{12}; q^{12})_{\infty}^3}{(q; q)_{\infty} (q^4; q^4)_{\infty} (q^6; q^6)_{\infty}^8} \text{ in equation (38.3.2) and below equation (38.3.8)}$$

$$\text{has been corrected to } \frac{(q^2; q^2)_{\infty}^3 (q^3; q^3)_{\infty}^3 (q^{12}; q^{12})_{\infty}^3}{(q; q)_{\infty} (q^4; q^4)_{\infty} (q^6; q^6)_{\infty}^9}.$$

In Chapter 38, page 355,

$$8q \frac{(q^3; q^3)_{\infty}^3 (q^4; q^4)_{\infty}^2 (q^{12}; q^{12})_{\infty}^2}{(q; q)_{\infty}^7 (q^2; q^2)_{\infty}^3}$$

$$\text{has been corrected to } 8q \frac{(q^3; q^3)_{\infty}^3 (q^4; q^4)_{\infty}^2 (q^{12}; q^{12})_{\infty}^2}{(q; q)_{\infty}^7 (q^2; q^2)_{\infty}^3}.$$

In Chapter 38, page 356

$$2q \frac{(q^2; q^2)_{\infty}^5 (q^{12}; q^{12})_{\infty}^6}{(q^4; q^4)_{\infty}^2 (q^6; q^6)_{\infty}^9} \text{ has been corrected to } 2q \frac{(q^2; q^2)_{\infty}^3 (q^{12}; q^{12})_{\infty}^6}{(q^4; q^4)_{\infty}^2 (q^6; q^6)_{\infty}^9}.$$

The book has been updated with the changes.