GMBook PROOF EDITS					BACK COVER :
Page	**Eq/Tab**	**Col**	**Par.**	**Line**	**Edits**
					add as top bullet to the 'resources cambridge' box=> http://www.cambridge.org/gravmag

GMBook PROOF EDITS					DEDICATION :
Page	**Eq/Tab**	**Col**	**Par.**	**Line**	**Edits**
iv?					**add=>** To our wives, Marilyn Ann Hinze, Janet Shaw-von Frese, and Linda C Saad, whose understanding and encouragement enabled us to complete this book.

GMBook PROOF EDITS					PREFACE :
Page	**Eq/Tab**	**Col**	**Par.**	**Line**	**Edits**
ix		2	2	12	**make new paragraph beginning with=>** The book …
x		1	3	20	**before '*Field*' remove=>** and
x		1	3	21	**after '…Ericksen, 2011)' add=>** , Fundamentals of Gravity Exploration (LaFehr and Nabighian, 2012), and Acquisition and Analysis of Terrestrial Gravity Data (Long and Kaufmann, 2013).

GMBook PROOF EDITS					ACKNOWLEDGEMENTS :
Page	**Eq/Tab**	**Col**	**Par.**	**Line**	**Edits**
xii		1	1	5	**change 'The Ohio University' to=>** The Ohio State University

GMBook PROOF EDITS					CHAPTER : 01 Introduction
Page	**Eq/Tab**	**Col**	**Par.**	**Line**	**Edits**

GMBook PROOF EDITS					CHAPTER : 02 The Earth's gravity field
Page	**Eq/Tab**	**Col**	**Par.**	**Line**	**Edits**
24		1	2	3 & 6	**change 'Gal' to=>** gal **(ie., three times in line 3 and once in line 6)**

GMBook PROOF EDITS					CHAPTER : 03 Gravity potential theory
Page	**Eq/Tab**	**Col**	**Par.**	**Line**	**Edits**
40	E 3.11	1			**change '*W*(r_2,r_1) = - *integral from* r_2 *to* r_1 … ' to=>** *W*(r_1,r_2) = *integral from* r_1 *to* r_2 … **(ie., reverse r2 & r1 and delete minus sign infront of integral).**
	E 3.12	1			**delete minus sign**
	E 3.13	1			**change '*W*(r_2,r_1) = - *integral from* r_2 *to* r_1 … = *Gm*(1/r_2 - 1/r_1) ' to=>** *W*(r_1,r_2) = *integral* **from r1 to r2… = Gm(1/r1 - 1/r2) (ie., reverse r2 & r1, delete minus sign infront of integral, and reverse the difference of quotients in third term).**
	E 3.14	1			**change '= -*W*(r_2,r_1) = ' to=>** = *W*(r_1,r_2) = **(ie., reverse r_2 & r_1, and delete minus sign)**
	E 3.15	1			**change '*integral from* r_2 *to* r_1 ' to=>** *integral from* r_1 *to* r_2 **(ie., reverse order of integration)**
41		1	2	14	**change '(in joules)' to=>** (in joules/kg)
49	T 3.2			8	**change '$g_{\#4}$ = (2πG Δσ R^2) / …. ' to=>** $g_{\#4}$ = (2πG Δσ R^2 z) / …. **(ie., insert *z* after R^2)**
51		2	1	9	**change '...[2π $R_{\#4}^2$ = …. ' to=>** ...[π $R_{\#4}^2$ = …. **(ie., delete the 2 in front of pi)**
52	3.4			1	**in caption, change 'fall-off factors for' to=>** attenuation factors ($f_g[x/z]_\#$) for
55		2	1	18	**change '- GLQ' to=>** GLQ **(ie., delete the dash before GLQ)**
58	E 3.89	2			**change 'cos(' to=>** sin(**(ie., in middle part of equation, replace 'cos' with 'sin')**

GMBook PROOF EDITS					CHAPTER : 04 Density of Earth materials
Page	**Eq/Tab**	**Col**	**Par.**	**Line**	**Edits**

GMBook PROOF EDITS					CHAPTER : 05 Gravity data acquisition
Page	**Eq/Tab**	**Col**	**Par.**	**Line**	**Edits**

GMBook PROOF EDITS					CHAPTER : 06 Gravity data processing
Page	**Fig.**	**Col**	**Par.**	**Line**	**Edits**
141	6.11	**1**			**in right-hand axis label change 'µGal' to=>** 0.1 µGal/m
150		1	1	5	**change 'be decreased.' to=>** be increased.
169	6.31			3	**in caption change 'FVG' to=>** FVD
169	6.32			3	**in caption change 'FVG' to=>** FVD
GMBook PROOF EDITS					**CHAPTER : 07 Gravity anomaly interpretation**
184	7.8				**to intersection of top horizontal line with left vertical axis, add=>** 0.0
	7.9				**to intersection of top horizontal line with left vertical axis, add=>** 0.0
185	7.10				**to intersection of top horizontal line with left vertical axis, add=>** 0.0
186	7.11				**to intersection of top horizontal line with left vertical axis, add=>** 0.0
188	7.13	2			**change the three occurrences of 'L/z = ?' to=>** L/z = ∞
GMBook PROOF EDITS					**CHAPTER : 08 The magnetic method**
Page	**Fig.**	**Col**	**Par.**	**Line**	**Edits**
217	8.1				**make the 'alpha' into a 'proportionality' symbol like it is in Fig. 2.2**
220	T 8.2	**3**			**in bottom line of Table 8.2, change 'new on (N)' to=>** newton (N)
224	8.6			1	**in caption, change 'IGRF11' to=>** IGRF-11
	8.7			1	**in caption, change 'IGRF11' to=>** IGRF-11
244	T 9.2			2	**in caption of Table 9.2, change 'is the normalized distance function for' to=>** is the attenuation factor for
GMBook PROOF EDITS					**CHAPTER : 09 Magnetic potential theory**
250	9.9(b)	2			**change '$A_1 \neq A_2$' to=>** $A_1 = A_2$
GMBook PROOF EDITS					**CHAPTER : 10 Magnetization of Earth materials**
256	10.3*				*) **replace with attached updated figure, where '560' is changed to=> 580** and the appropriate mecury levels are now visible
259	10.5*				***) replace with attached updated figure, where 'Banded iron formation' is changed** to=> Banded Iron Formation (BIF), and (Jrem/Jind) has been deleted from bottom axis
274	10.12				**in bottom graph, change 'mode = 0.517 x 10^{-3} Slu' to=>** mode = 0.847 x 10^{-3} Slu
GMBook PROOF EDITS					**CHAPTER : 11 Magnetic Data Acquisition**
GMBook PROOF EDITS					**CHAPTER : 12 Magnetic Data Processing**

GMBook PROOF EDITS				CHAPTER : 13 Magnetic anomaly interpretation	
Page	**Fig.**	**Col**	**Par.**	**Line**	**Edits**
341	13.3			**5,6,7**	**in caption delete sentence=>** This map shows how magnetic anomaly maps can distinguish a granodiorite intrusion from surrounding lavas.
				7	**move=>** Adapted from SCOTT (1956). **to the end of the caption**
344	13.6				**in caption, change 'Only the source extending from 10 to 110 m is shown in the figure.' to=>** The source extending from 10 to 110 m is shown by black fill with the top and bottom of the other sources shown by solid, dotted or dashed lines.
345	13.7			2	**in caption, change u.c. ΔZ to l.c.=>** Δz ,
346					**add page number and running head=>** 346 Magnetic anomaly interpretation
349	13.13				**on both 'Distance (km)' axes, change '-1' to=>** - 0.1 **to the left of the center 0**
350	13.14				**on both 'Distance (km)' axes, change '-1' to=>** - 0.1 **to the left of the center 0**
351	13.15				**on both 'Distance (km)' axes, change '-1' to=>** - 0.1 **to the left of the center 0**
356	13.20				**in bottom depth panel under SALT, change 'W' to=>** L **and** under **SAND CHANNEL**, change 'W' to=> L
358	13.22			2	**in caption, change '… sources. Table 13.1 …' to=>** … sources. The anomaly parameters also apply to vertical cylinders and narrow vertical dikes where the depth z would be the depth to the top of the source. Table 13.1 …'
358	13.23			1	**in caption, change '… for the gravity and magnetic effects of ...'** to=> … for the magnetic effects (total field and its vertical derivative) of ...
359	13.24*				***) replace with attached updated figure, where the label** ' PETERS HALF-SLOPE LENGTH (PL or HSL ≈ 1.6 z)' has been added under the double arrow in the left bottom.
	13.24			1,2	**Change Caption to =>** Popular magnetic depth (z) estimators using straight slope, half-slope, Sokolov, and demi-pentes length parameters of magnetic anomalies due to infinite vertical prism sources assuming vertical magnetization. Numbers shown in the figure are commonly used values of the dividing factors to obtain depth.
360	13.25			1	**in caption, add 2nd sentence=>** HSL parameter depends on slope of anomaly flanks, but does not depend on anomaly amplitude. This, in general, applies to other magnetic sources.
361	13.26*				***) replace with attached updated figure, where 'πz' has been moved to above the arrow.**
362	13.27			1	**in caption, change '… half-slopes directly …' to=>** … half-slope lenghs (HSL) and straight-slope lengths (SSL) directly …
365	13.29			4	**in caption, change 'ΔB_T' to=>** B_T
365	13.30			1	**in caption, change '..vertical derivatives.' to=>** ..vertical or horizontal derivatives.
368	13.33*				***) replace with attached updated figure with correct scales on vertical axes of upper panel**
370	13.35			1,2	**replace caption by=>** "Simultaneous solutions of Euler's equation for the horizontal location, depth, and structural index of a step fault from the vertical derivatives of its magnetic anomaly. The solutions are based on two passes over first and second vertical derivative profiles using 4-point windows. Adapted from Hsu (2002).
373	13.38			1	**in caption, change '(z_t)' to=>** ($z = z_t$) **and change (Δ_z) to=>** (Δz)
				2	**to end of caption, add=>** Numbers in parentheses are actual values.
376	13.41			1	**in caption, change 'Magnetic anomalies …' to=>** High frequency sedimentary magnetic anomalies …
	13.41			1	**and in caption, change '… Figure 13.39 ...' to=>** … Figure 13.40 ...

GMBook PROOF EDITS					CHAPTER : References
Page	**Fig.**	**Col**	**Par.**	**Line**	**Edits**
488					**after 'LaFehr, T.R., 1998…' insert=>** LaFehr, T.R., and Nabighian, M.N., 2012, *Fundamentals* of Gravity Exploration, Society of Exploration Geophysicists.
489					**after 'Lines, L.R., and Treitel, S., 1984 …' insert=>** Long, L. T., and Kaufmann, R.D., 2013, Acquisition and Analysis of Terrestrial Gravity Data, Cambridge University Press.

GMBook PROOF EDITS					APPENDIX : A Data systems processing
Page	**Eq.**	**Col**	**Par.**	**Line**	**Edits**
428	A.22	2	2		**everything between the square brackets should be under the square-root symbol, not just A_i**