

# ERRATA FOR MODEL CATEGORIES AND THEIR LOCALIZATIONS

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## PROPOSITION 4.2.5

Proposition 4.2.5 is incorrect. It was correct for early drafts of the book, in which the definition of a cellular model category required that the domains of the elements of the set  $J$  of generating trivial cofibrations be cofibrant. The current definition of a cellular model category, however, requires only that the domains of the elements of  $J$  be small with respect to  $I$  (see Definition 12.1.1).

To correct the error:

- In the third line of the statement of Proposition 4.2.5, change “cofibrant domains” to “domains that are small relative to  $I$ ”,
- in the proof of Proposition 4.2.5, in lines 4–5 of page 74, change “with cofibrant domain” to “whose domain is small relative to  $I$ ”, and
- in the proof of Theorem 4.3.1 on page 75, in the first line of that proof, change “Theorem 12.4.3” to “Proposition 11.2.3”.

## CHAPTER 3

- Page 51, line 35: “ $\mathcal{C}$ -local objects and  $\mathcal{C}$ -local” should be “ $\mathcal{C}$ -colocal objects and  $\mathcal{C}$ -colocal”.
- Page 59, line 5: “Proposition 9.1.9” should be “Proposition 8.1.23”.
- Page 59, line 11: “Proposition 8.3.26” should be “Theorem 7.5.10”.
- Page 59, line 14: “Proposition 8.3.20” should be “Proposition 7.3.4”.
- Page 59, line 14: “Proposition 8.4.4” should be “Proposition 7.6.8”.
- Page 59, line 16: “Definition 9.6.2” should be “Definition 8.3.2”.
- Page 59, line 16: “Lemma 9.6.3” should be “Lemma 8.3.4”.
- Page 59, line 17: “Theorem 9.6.9” should be “Theorem 8.3.10”.
- Page 63, line 15: “Theorem 4.1.10” should be “Theorem 3.2.13”.
- Page 67, line 3: “Corollary 8.5.4” should be “Corollary 7.7.4”.
- Page 67, line 7: “Proposition 8.3.7” should be “Proposition 7.3.10”.
- Page 67, line 23: “is an trivial cofibration” should be “is a trivial cofibration”.
- Page 68, line 5: “Definition 11.2.12” should be “Definition 13.3.12”.

## CHAPTER 4

- Page 72, line 6: “ $\mathcal{L}_{\mathcal{C}}\mathcal{M}$ ” should be “ $\mathcal{L}_{\mathcal{S}}\mathcal{M}$ ”.
- Page 72, line 6: “ $\mathcal{C}$ -local” should be “ $\mathcal{S}$ -local”.
- Page 72, line 8: “ $\mathcal{L}_{\mathcal{C}}\mathcal{M}$ ” should be “ $\mathcal{L}_{\mathcal{S}}\mathcal{M}$ ”.
- Page 72, line 10: “ $\mathcal{L}_{\mathcal{C}}\mathcal{M}$ ” should be “ $\mathcal{L}_{\mathcal{S}}\mathcal{M}$ ”.
- Page 72, line 12: “ $\mathcal{C}$ -local” should be “ $\mathcal{S}$ -local”.

## CHAPTER 5

Page 83, line 11: “ $K$ -local equivalences” should be “ $K$ -colocal equivalences”.

Page 83, line 15: “ $\mathcal{C}$ -colocal” should be “ $K$ -colocal”.

Page 83, line 20: “ $\mathcal{C}$ -colocal” should be “ $K$ -colocal”.

Page 83, line 21: “ $\mathcal{C}$ -local” should be “ $K$ -colocal”.

## SUMMARY OF PART 2

Page 103, line 4 from bottom: “ $\mathbf{R}\mathbf{U}: \mathcal{N} \rightarrow \mathcal{M}$ ” should be “ $\mathbf{R}\mathbf{U}: \mathbf{Ho}\mathcal{N} \rightarrow \mathbf{Ho}\mathcal{M}$ ”

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