

Errata and Addenda

Ref. 48 is re-labeled as [48-1].

The following two references should be added after Ref. [48-1]:

[48-2]: M. Kamp, T. Happ, S. Mahnkopf, A. Forchel, S. Anand, and G-H. Duan, "Photonic crystal based active optoelectronic devices," in Photonic Crystals - Advances in Design, Fabrication and Characterization, pp 329-346, Ed. K. Busch, S. Lölkes, R. B. Wehrspohn and H. Föll, Wiley-VCH Verlag GmbH and Co. KGaA (2004).

[48-3]: R. März, S. Burger, S. Golka, A. Forchel, C. Hermann, C. Jamois, D. Michaelis and K. Wandel, "Planar high index-contrast photonic crystals for telecom applications," in Photonic Crystals - Advances in Design, Fabrication and Characterization, pp 308-328, Ed. K. Busch, S. Lölkes, R. B. Wehrspohn and H. Föll, Wiley-VCH Verlag GmbH and Co. KGaA, (2004).

Ref. [78]: The existing reference should be replaced by "Z. L. Liao, "Mass transport: semiconductor microstructure fabrication by surface energy", Materials Science and Engineering R 42, 41 (2003)."

Sec. 1.1.6. line 7, 8: "Hence, integration ... easy task" should read as " Hence, integration of PhC structures is relatively easier [48-2]."

Pg. 8; line 4-6: "The width of by the planar guide" should be replaced by "The width of ... a single guided mode [48-2]."

Pg. 9; line 5: ref. [48-2] should be cited after "planar waveguide"

Ch. 2; under 2D PhC fabrication: ref. [48-3] should be cited in lines 3 and 4 after "600 nm" and after "350 nm" The phrase "as described in ref. 48-3" should be added after "material systems" on line 12.

Sec. 2.1.1. para 1, line 4: Ref. [48-3] should be cited after "defined patterns"

Sec. 2.1.4. line 1. The sentence "The discussions given below on etch requirements and physical principles closely follow ref. 48-3."

Pg. 17: Ref. [48-3] should be cited after "heating systems" {para 1 line 10}; after "selectivity" {para 2 line 4}; after "etch depth" {para 2 line 6}.

Pg. 17: Para 1, line 11 "radiativly" should be corrected to "radiatively."

Pg. 36. Line 12-13, end of para: The sentence 'The above are excerpts from ref. 69' should be added and the last sentence should be modified to read as "Fig. 2.13 shows fabricated (this thesis work) PhC H2 cavity."

Sec 3.2. line 1. The sentence "The following discussions on mass transport mechanisms in III-V materials are mainly derived from ref. 78." should be added.

Pg 30, line 10. " $(\gamma t)^{1/4}$ " should read as " $t^{1/4}$."

Sec. 4.1. line 3. ref. [48-3] should be cited after "telecommunication systems."