

F. J. Duarte, *Quantum Optics for Engineers* (CRC, New York, 2013)

Corrigenda

Introduction

This is a partial list of corrections to the first edition of *Quantum Optics for Engineers*.

F. J. Duarte

6.3 Double-Pass Generalized Multiple-Prism Dispersion

Page 84, Equation (6.24): delete the -1 exponent on the RHS, so that the equation reads

$$\nabla_{\lambda} \phi'_{1,m} = \mathcal{H}'_{1,m} \nabla_{\lambda} n_m + (k'_{1,m} k'_{2,m}) (\mathcal{H}'_{2,m} \nabla_{\lambda} n_m \pm \nabla_{\lambda} \phi'_{1,(m+1)})$$

14.5 Introduction to the Density Matrix

Page 223, following Equation (14.105): replace $\rho = \rho^{\dagger}$ by $\rho = (\rho^*)^{\dagger}$

Page 224, following Equation (14.107): replace $\rho = \rho^{\dagger}$ by $\rho = (\rho^*)^{\dagger}$

Page 224, in Equation (14.112): delete the $\frac{1}{2}$ factor.

Page 227, Problem 14.8: replace $\rho = \rho^{\dagger}$ by $\rho = (\rho^*)^{\dagger}$

21.6 Heisenberg's Uncertainty Principle and EPR

The correct title of this section, on page 332, is as shown above.