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System Upgrade on Fri, Jun 26th, 2020 at 5pm (ET) During this period, our website will be offline for less than an hour but the E-commerce and registration of new users may not be available for up to 4 hours.

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Solutions to selected exercises and problems. Selected answers to the problems in the book can be accessed by clicking the chapter links below. The complete solutions manual is available to adopting lecturers only. Chapter 00 Introduction and orientation (PDF) Chapter 01 The foundations of quantum mechanics (PDF) Chapter 02

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Soln: From Problem 3.6 We have  $A = \frac{m\omega}{\pi} \sqrt{2m\hbar\omega} - x^2 + 1 \ell^2 \hbar p A' = m^2\omega^2 x p^2 2m\hbar\omega^2 - \omega x^2 + 1 \ell^2 \hbar p$  Hence  $A' + A'' = - \ell^2 x A' - A'' = - \ell^2 2 \ell^2 \hbar p$  so  $A = 1 2 \ell^2 (A' + A'') + \ell^2 2 (A' - A'') = 0 = A | 0 \rangle = 1 2 X k (f-1 +f)c k A' | k \rangle + (f-1 -f)c k A' | k \rangle = 1 2 X k n (f-1 +f) \sqrt{k} | k-1 \rangle + (f-1 -f) \sqrt{k+1} | k+1 \rangle = 0$

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