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$a^2 + k^2$  (20) The full solution, including time-dependence, is therefore  $Y(x;t) = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} dk e^{ikx - i\hbar k^2 t / 2m}$  (21)  $= \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} dk e^{ikx - i\hbar k^2 t / 2m}$  (22) This integral is clearly not easy and probably doesn't have a closed form, but the idea of how a problem is solved should be clear from this example.

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Introduction to Elementary Particles

Griffiths begins with the interesting History of elementary particles, from the electron to the Standard Model (I've never read it before), letting you know how every kind of particle was discovered. Then it makes a review of the elementary forces and gives an intuitive notion of how their behaviour.

Introduction to Elementary Particles: Amazon.co.uk ...

Elementary Particle Physics 1 How Do You Produce Elementary Particles? 4 How Do You Detect Elementary Particles? 7 Units 8 References and Notes 10 1 Historical Introduction to the Elementary Particles 11 1.1 The Classical Era (1897-1932) 11 1.2 The Photon (1900-1924) 14 1.3 Mesons (1934-1947) 17 1.4 Antiparticles (1930-1956) 18

INTRODUCTION TO ELEMENTARY PARTICLES

David Griffiths: Introduction to Quantum Mechanics. Here are my solutions to various problems in David J. Griffiths's textbook Introduction to Quantum Mechanics, Second Edition. Obviously I can't offer any guarantee that all the solutions are actually correct, but I've given them my best shot. There is an official site listing errata in the textbook.

Griffiths: Introduction to Quantum Mechanics

$E = \gamma m$  and  $p = \gamma mv$  where, (as expected) the non-relativistic limit of the particle energy and momentum are (in natural units)  $E = m + \frac{1}{2}mv^2$  and  $p = mv$ . 3.8 Hint: Here  $p_a = (E_a; 0; 0; p_a)$  and  $p_b = (E_b; 0; 0; 0)$ . 3.9 Hint: First write  $p = \frac{E^2 - m^2}{E}$  and square to eliminate  $E$  and then eliminate  $E$  by again squaring. 3.10 Hint: a) Differentiating  $E^2 = p^2 + m^2$

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