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W. Greiner: Relativistic Quantum Mechanics (Wave Equations) Here are some notes on the book W. Greiner: Relativistic Quantum Mechanics (Wave Equations); 3rd Edition, Springer-Verlag (2000). The book contains no exercises for the reader (well, there are exercises, but the solutions are given in detail in the book), so I'm providing only my own notes on the text to summarize the contents and clarify a few points.

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W. Greiner: Relativistic Quantum Mechanics  
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The first chapter deals with the Klein-Gordon equation and its properties and applications. The chapters that follow introduce the Dirac equation, investigate its covariance properties, and present various approaches to obtaining solutions.

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German physicist. Walter Greiner (29 October 1935 – 6 October 2016) was a German theoretical physicist. His research interests lay in atomic physics, heavy ion physics, nuclear physics, elementary particle physics (particularly in quantum electrodynamics and quantum chromodynamics ). He is known for his series of books in theoretical physics, particularly in Germany but also around the world.

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Chapter 1 deals with the Klein-Gordon equation and its properties and applications.

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obtaining solutions.

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Chromodynamics are obligatory.



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Amitabha Lahiri & P. B. Pal: A First Book of  
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Quantum Electrodynamics | Walter Greiner,  
Joachim ...

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and Field Theory, (John Wiley & Sons, 1999) [

7] W. Greiner, Relativistic Quantum  
Mechanics: Wave Equations, (Springer, 2000) [

8] C. Itzykson and J.-B. Zuber, Quantum Field  
Theory, (Dover Publications, 2006) [ 9] T. D.

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Lee, Particle Physics and Introduction to  
Field Theory, (Taylor & Francis, 1981)

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