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How the Standard Model Got Started

Standard Model Lagrangian

Particles of the Standard Model

The Standard Model Lagrangian

The Photon Field

Coupling Constants

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The DANCE particle + how physicists work with quasiparticles

How we deal with light - waves and particles (photons)

Sound waves: oscillations in air (+ other gases liquids and solids)

Sound wave in a solid: atomic structure and bonds transmit energy

Treating sound waves as particles (phonons) - quasiparticles

Why phonons are useful (multiple sound waves and phonon-phonon interactions)

Electron hole quasiparticles (vacancy vs electron motion)

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Principles of Quantum Mechanics by Shankar

Complete Review of Classical Mechanics

Mathematical Methods for Physics

Mathematical Methods for Physics and Engineering by Riley Hobson

Classical Mechanics

Chapter 1

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Concept Map

2d Material

Point Defect

Point Defects

The Arrhenius Equation

General Arrhenius Equation

Activation Energy

Boltzmann Constant

Vacancy Formation Energy

Vacancy Generation and Annihilation

Vacancy Formation

Vacancy Formation Energy in Aluminum

Point Defects in Ionic Solids

Frankel Defect

Self-Interstitial

Solid Mechanics Theory | Constitutive Laws (Elasticity Tensor) - Solid Mechanics Theory | Constitutive Laws (Elasticity Tensor) by Dr. Clayton Pettit 29,462 views 2 years ago 30 minutes - Solid, Mechanics Theory | Constitutive Laws (Elasticity Tensor) Thanks for Watching :) Contents: **Introduction**,: (0:00)

Reduction 1 ...

Introduction

Reduction 1 - Stress and Strain Tensor Symmetry

Reduction 2 - Preservation of Energy

Reduction 3 - Planes of Symmetry

Orthotropic Materials

Transversely Isotropic Materials

Isotropic Materials

Plane Stress Condition

Plane Strain Condition

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Intro

Stress Strain Curve

Slip Mechanism

Edge Dislocation

Slip Plane

Dislocation

Slip Direction

Close Pack Direction

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Intro

Overview

Van der Waals

Hamiltonian

Equilibrium

Cohesive Energy

Total Energy

Constant Evaluation

Covalent Bond

Metals

Hydrogen Bond

solution of the central equation - solution of the central equation by Physics 2,723 views 3 years ago 19 minutes - Course: Solid State Physics Book: **Introduction to Solid State Physics**, Eighth Edition by Charles **Kittel**, Chapter No. 7 Energy ...

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