

Name _____

Date _____

Class _____



Lesson Plans

12.1 Counting Particles of Matter



Block schedule: 1 session

Single period schedule: 2 sessions

KEY

SE=Student Edition, TWE=Teacher Wraparound Edition, TCR=Teacher Classroom Resources, STV=Science and Technology Videodisc Series, MCC=Mastering Concepts in Chemistry, SPP=Supplemental Practice Problems

Section Objectives

- _____ Compare and contrast the mole as a number and the mole as a mass.
- _____ Relate counting particles to weighing samples of substances.
- _____ Solve stoichiometric problems using molar mass.

Focus

-  Section Focus Transparency and Master 24, TCR

Teach

-  MiniLab 1, SE p. 406

Demonstrations, TWE:

-  _____ 12.1 _____ 12.2 _____ 12.3

Quick Demo, p. 409

-  Basic Concept Transparency and Master 33 TCR



- Laboratory Manual 12.1 TCR



- ChemLab and MiniLab Worksheets, p. 81 TCR

CD-ROM Section 12.1

- Videodisc: CCA Disc 2, Side 1, Ch. 5, 6

Assess

-  Section Review, SE p. 413
- _____ Check for Understanding, TWE p. 412
- _____ Performance Assessment in the Science Classroom

Reteach/Reinforcement

- _____ Practice Problems, SE pp. 406, 412-413
-  Reteach, TWE p. 413
- _____ SPP: Chapter 12 TCR



- Study Guide, pp. 47-48 TCR

Audiocassettes: Ch. 12 Summary

- Software: MCC, Unit 6, Lesson 1

Enrichment/Application

-  Extension, TWE p. 413
-  Critical Thinking/Problem Solving, p. 13 TCR

Close

-  Software, TWE p. 413

12 Counting Particles Of Matter

John Richard Gorham



12 Counting Particles Of Matter:

Principles of Radiation Interaction in Matter and Detection Claude Leroy, 2012 This book like the first and second editions addresses the fundamental principles of interaction between radiation and matter and the principles of particle detection and detectors in a wide scope of fields from low to high energy including space physics and medical environment It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter detecting systems performance of detectors and their optimization The third edition includes additional material covering for instance mechanisms of energy loss like the inverse Compton scattering corrections due to the Landau OCoPomeranchuk OCoMigdal effect an extended relativistic treatment of nucleus OConucleus screened Coulomb scattering and transport of charged particles inside the heliosphere Furthermore the displacement damage NIEL in semiconductors has been revisited to account for recent experimental data and more comprehensive comparisons with results previously obtained This book will be of great use to graduate students and final year undergraduates as a reference and supplement for courses in particle astroparticle space physics and instrumentation A part of the book is directed toward courses in medical physics The book can also be used by researchers in experimental particle physics at low medium and high energy who are dealing with instrumentation

SciencePlus McFadden, 1997 An activity based science program which emphasizes concept and skill development over memorization Contains a balance of physical biological earth space and environmental science topics

Control of Particulate Matter Contamination in Healthcare Manufacturing Thomas A. Barber, 1999-10-31 This book offers practical applications addressing the specifics of contamination including particle origination characterization identification and elimination with a special focus on quality considerations Written by an industry expert this material offers a clear and concise understanding of particle populations and their control in stability efficacy and predictability in the manufacture of healthcare products Complete with a full color insert of micrographs illustrating commonly encountered particulate matter and over eighty figures tables and charts Features

Dark Matter Jean Audouze, J. Thanh Van Tran, 1988

Condensation Particle Counting Technology and Its Applications Longfei Chen, Xiaoyan Ma, Guangze Li, Liuyong Chang, 2024-09-20 Condensation Particle Counting Technology and Its Applications introduces the principles key components calibration methods and applications of condensation particle counting systems This book delves into the adverse effects of fine particles on human health along with the existing detection technologies for these particles It discusses the theories and methods of optical measurement for fine particles and elaborates on the applicable conditions for each light scattering theory providing a theoretical foundation for detecting particle scattered light This book concludes with an overview of the challenges posed by ongoing climate change and future research prospects in condensation particle counting CPC This book is intended for industry professionals and environmental researchers specializing in particle and aerosol measurement detection methods and technology

Origin Of Matter And Evolution Of Galaxies 97 Shigeru

Kubono, Ken-ichi Nomoto, Toshitaka Kajino, Isao Tanihata, 1999-01-15 **Principles Of Radiation Interaction In Matter And Detection (3rd Edition)** Claude Leroy, Pier-giorgio Rancoita, 2011-09-23 This book like the first and second editions addresses the fundamental principles of interaction between radiation and matter and the principles of particle detection and detectors in a wide scope of fields from low to high energy including space physics and medical environment It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter detecting systems performance of detectors and their optimization The third edition includes additional material covering for instance mechanisms of energy loss like the inverse Compton scattering corrections due to the Landau Pomeranchuk Migdal effect an extended relativistic treatment of nucleus nucleus screened Coulomb scattering and transport of charged particles inside the heliosphere Furthermore the displacement damage NIEL in semiconductors has been revisited to account for recent experimental data and more comprehensive comparisons with results previously obtained This book will be of great use to graduate students and final year undergraduates as a reference and supplement for courses in particle astroparticle space physics and instrumentation A part of the book is directed toward courses in medical physics The book can also be used by researchers in experimental particle physics at low medium and high energy who are dealing with instrumentation

Chemistry is Phenomenal Tracy Poulsen, **Principles Of Radiation Interaction In Matter And Detection (2nd Edition)** Claude Leroy, Pier-giorgio Rancoita, 2009-02-26 This book like its first edition addresses the fundamental principles of interaction between radiation and matter and the principle of particle detectors in a wide scope of fields from low to high energy including space physics and the medical environment It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter detecting systems and performance and optimization of detectors In this second edition new sections dedicated to the following topics are included space and high energy physics radiation environment non ionizing energy loss NIEL displacement damage in silicon devices and detectors single event effects detection of slow and fast neutrons with silicon detectors solar cells pixel detectors and additional material for dark matter detectors This book will benefit graduate students and final year undergraduates as a reference and supplement for courses in particle astroparticle and space physics and instrumentation A part of it is directed toward courses in medical physics The book can also be used by researchers in experimental particle physics at low medium and high energy who are dealing with instrumentation **Principles of Food Analysis for Filth, Decomposition, and Foreign Matter** John Richard Gorham, 1981

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