

Study Guide

Physics

- Memorize all equations!

Kinematics and Dynamics

- ✓ Fundamental measurements: imperial and metric systems
- ✓ Base units and derived units
- Dimensions refer to magnitude of length OR distance. Two-dimensional is on a 2D plane, 3D on 3D, etc.
 - ◆ 2D: xy coordinates
 - ◆ 3D: xyz coordinates
 - ◆ 4D: xyzt coordinates
- ✓ Operation involving a vector and a vector may not result in a vector.
- ✓ Operation involving a vector and a scalar only results in a vector.
- ✓ Operation involving a scalar and a scalar results in a scalar.
- ✓ Vector addition
 - ◆ ✓ Tip-to-tail method: literally just add $A+B+C...$ etc.
 - ◆ ✓ Perpendicular components (x & y typically)
 - ◆ ✓ Magnitude and direction calculations
- Vector subtraction
 - ◆ Add vector with equal magnitude and opposite direction to the first vector.
 - ◆ ✓ $A-B=A+(-B)$
 - ◆ Subtraction may be performed on component vectors, then combined to create a final vector.
- Multiplying vectors by scalars
 - ◆ This will cause a change in magnitude, but the direction will be either parallel or antiparallel to the original direction.
 - ◆ Multiply vector A & a scalar value to find magnitude of new vector.
 - ◆ ✓ If the scalar value is positive, the old and new vectors will have the same direction. If it's negative, opposite directions.
- Multiplying vectors by other vectors
 - ◆ ✓ Dot product to generate a scalar quantity
 - ◆ ✓ Cross product to generate a new vector. Resultant will always be perpendicular to plane created by the 2 vectors.
 - ◆ Use right hand rule to determine direction
 - Point thumb in direction of vector A.
 - Extend fingers in direction of vector B.
 - Palm points in direction of vector, since palm establishes plane between vectors.
 - See example on Page 11

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Peterson's Annual Guides to Graduate Study ,1983 **Government-wide Index to Federal Research & Development Reports** ,1967-07 *The School Journal* ,1905 **Rethinking Teaching in Higher Education** Alenoush Saroyan, Cheryl Amundsen,2023-07-03 This book is intended for faculty and faculty developers as well as for deans chairs and directors responsible for promoting teaching and learning in higher education Intentionally non technical it engages readers reflectively with a process for developing teaching and details the planning necessary to apply this process to teaching within disciplines The book centers on McGill University s week long Course Design and Teaching Workshop that the contributors have offered together for more than ten years It follows the five day format of the workshop covering the analysis of course content conceptions of learning the selection of appropriate teaching strategies the evaluation of student learning and evaluation of teaching in a way that reflects the spontaneity of the debates it has engendered and the workshop s evolutionary changes The structure shows faculty members conceptualizing new courses or re examining their teaching of existing courses and translating the insights gained from the workshop to specific disciplinary content and learning outcomes In addition four previous participants of the workshop write about its influence on their personal thinking about the practice of teaching The final two chapters describe the structure and evolving role of McGill s Centre for University Teaching and Learning The authors describe its objectives in fostering an evidence based teaching culture and providing a practical support structure with limited resources They highlight achievements in disseminating teaching expertise across their campus and their vision for the future role of faculty development This book provides faculty developers and administrators with valuable non prescriptive models and challenging ideas that promote faculty development in general and university teaching in particular It engages faculty members in the process of course design in a way that is learning centered and can lead to deep student learning *Nuclear Science Abstracts* ,1975-06 *Peterson's Guide to Undergraduate Engineering Study* David R. Reyes-Guerra, Alan M. Fischer,1981 日本国政府 (Japan),1900 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1964 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **The American Produce Review** ,1913
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