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Physical Education and Exercise Science by Margaret J. Safrit, Terry M. Wood ISBN: 9780873222235 from
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Concepts of measurement in physical education are presented in this college-level text to enable the preservice physical education major to develop skills in determining pupil status, designing effective physical activity programs, and measuring student progress. Emphasis is placed upon discussion of essential statistical methods, test administration, and application of results, so that most of the tests might be administered directly from the text. The material is presented in twelve chapters detailing: (1) approaches to Physical Science, Life Science, and Earth and Space Science Standards. The standards for physical science, life science, and earth and space science describe the subject matter of science using three widely accepted divisions of the domain of science. Science subject matter focuses on the science facts, concepts, principles, theories, and models that are important for all students to know, understand, and use. Standards help students develop decision-making skills. Understandings associated with the concepts in Table 6.6 give students a foundation on which to base decisions they will face as citizens. History and Nature of Science Standards. In learning science, students need to understand that science reflects its history and is an ongoing, changing enterprise. Concepts of measurement in physical education are presented in this college-level text to enable the preservice physical education major to develop skills in determining pupil status, designing effective physical activity programs, and measuring student progress. Emphasis is placed upon discussion of essential statistical methods, test administration, and application of results, so that most of the tests might be administered directly from the text. The material is presented in twelve chapters detailing: (1) approaches to
The course also prepares physical education teachers as researchers and physical activities specialists to evaluate students’ performance in physical education and sports. At the end of this course, the learner will be able to:

1. Understand and use statistical concepts in assessing and evaluation of physical education.
2. Understand the function of measurements.
3. Carry out research in various aspects of physical education.
4. Evaluate physical education instructional programmes and physical activities.

Methodological—contains empirical investigation of measurement and statistical tools used within physical education and exercise science. Tutorials—includes articles on how to appropriately use new or existing measurement procedures as well as information on the appropriate use of statistical techniques. Applied Research—includes validity, reliability, and objectivity studies of selected instruments from physical education and exercise science. Test/Instrument Development—includes research designed to develop skill tests, fitness tests, psychological tests, competency based tests, equipment.