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PROGRESSIVE TENNIS SKILLS TEST DEVELOPED FOR
COLLEGE PHYSICAL EDUCATION CLASSES
WITH VARYING LEVELS OF PLAY

by

JOE M. WILLIAMS

RESEARCH PROJECT REPORT

Presented to the Graduate Faculty of Physical Education

Division of Behavioral Science and Physical Education

The University of Texas of the Permian Basin

in Partial Fulfillment of Requirements

for the Degree of

MASTER OF ARTS

THE UNIVERSITY OF TEXAS OF THE PERMIAN BASIN

July 1987

PROGRESSIVE TENNIS SKILLS TEST DEVELOPED FOR
COLLEGE PHYSICAL EDUCATION CLASSES
WITH VARYING LEVELS OF PLAY

APPROVED BY SUPERVISORY COMMITTEE:

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ABSTRACT

The purpose of the present investigation was to develop a reliable, valid and objective skills test for college physical education tennis classes which had students of varying ability levels. The subjects (N=50) were randomly divided into two groups based on whether they were experienced or inexperienced players. The tennis skill variables tested were consistency, depth, serve, forehand, backhand, and volley. Stability reliability was estimated at $.94$ $p < .05$. Concurrent validity was estimated by correlating the average ratings of three experts with the first and second administrations of the test. Concurrent validity was estimated at $.92$ $p < .05$. Construct validity was estimated at the $p < .05$ level showing a significant difference in the two groups. Objectivity estimates were found to be $.85$ $p < .05$ when the test was administered by another instructor. The Progressive Tennis Skills Test proved to be reliable, valid and objective for college physical education classes with students at varying ability levels.