



**"CE 211 – FUNDAMENTALS OF SURVEYING"**

**TYPES OF HORIZONTAL CURVES**

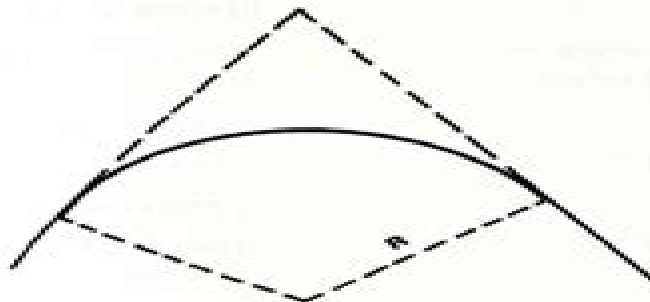
A curve may be **SIMPLE, COMPOUND, REVERSE, OR SPIRAL**. Compound and reverse curves are treated as a combination of two or more simple curves, whereas the spiral curve is based on a varying radius.

**Simple**

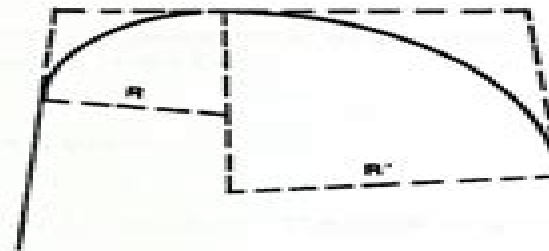
The simple curve is an arc of a circle. It is the most commonly used. The radius of the circle determines the "sharpness" or "flatness" of the curve. The larger the radius, the "flatter" the curve.

**Compound**

Surveyors often have to use a compound curve because of the terrain. This curve normally consists of two simple curves curving in the same direction and joined together.



**SIMPLE CURVE**



**COMPOUND CURVE**

**Reverse**

A reverse curve consists of two simple curves joined together but curving in opposite directions. For safety reasons, the surveyor should not use this curve unless absolutely necessary.

**Spiral**

The spiral is a curve with varying radius used on railroads and some modern highways. It provides a transition from the tangent to a simple curve or between simple curves in a compound curve.

# Compound Curves Surveying Solution Manual

**Iowa State University**



## **Compound Curves Surveying Solution Manual:**

**A Manual of Land Surveying** Charles Fitzroy Bellows, Francis Hodgman, 1888      **A Manual of Land Surveying** F. Hodgman, Charles Fitzroy Bellows, 1891      **Field Engineering** William Henry Searles, 1929      *Field Manual for Engineers* Philetus Harvey Philbrick, 1901      *Plane and Geodetic Surveying for Engineers: Plane Surveying* David Clark, 1923  
*Surveyor Reference Manual* George M. Cole, Andrew L. Harbin, 2006 The Surveyor Reference Manual is the most comprehensive reference and study guide available for surveyors preparing for the Fundamentals of Surveying FS exam New chapters on GPS electronic distance measurement geographic information systems economics job costing and ethics have been added to this edition to meet the current NCEES survey exam specifications The most trusted reference for the FS exam A complete introduction to the exam including the format and content A comprehensive review of the math needed to perform surveying functions More than 240 solved example problems and 385 solved practice problems A full glossary of terms An easy to use table of sine cosine and tangent values The Land Surveyor Reference Manual successfully prepared me for the exam and is now the backbone of my reference collection J Forest McKenzie II E I T L S I T Civil Designer ADC Engineering Inc      *Engineering Education* ,1979      Surveying and Mapping ,1953      Railway Engineering and Maintenance of Way ,1915      Annual Catalogue of the Agricultural and Mechanical College of Texas. Session ... Agricultural and Mechanical College of Texas, 1913      **Land Surveyor Reference Manual** Andrew L. Harbin, 2001 The Land Surveyor Reference Manual is the book most used to prepare for the Fundamentals of Land Surveying formerly called the LSIT exam It is also a complete review of important techniques unique to the land surveying profession In addition to 29 chapters covering every major topic in the discipline it provides a concise review of the math necessary to perform surveying functions  
**Plane and Geodetic Surveying for Engineers: Plane surveying** David Clark, 1960      Highway Research in Progress ,1967      **Railroad Engineering** Walter Loring Webb, 1908      **General Catalog** Iowa State University, 1908      *Text* William Henry Searles, Howard Chapin Ives, 1949      **Cumulative Index to ASCE Publications** American Society of Civil Engineers, 1935      **Indian Railways** ,1986      **Engineering World** ,1921      **Iowa State College of Agriculture and Mechanic Arts, Division of Agriculture** Iowa State College of Agriculture and the Mechanical Arts. Division of Agriculture, Iowa State College of Agriculture and the Mechanical Arts. Division of Engineering, 1907

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