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Lec-14 Geometric  
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Track Geometric design  
of railway track PART 1  
| GATE SSC JE RRB  
Exam ~~ALIGNMENT  
OF RAILWAY LINE~~

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~~ALIGNMENT OF  
RAILWAY TRACK  
RAILWAY~~

ENGINEERING 2020:

Transit \u0026amp; Rail

Design - Rail

Alignment, Profile

\u0026amp; Corridor

Horizontal Geometry in

OpenRoads Designer

Versine Measurement

Rail Design in Civil 3D

2019.1 Webcast

Advanced Rail

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Connections Design in  
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~~Alignment of rail's PWI~~  
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Railway Switches  
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~~Flat Bottom Rail full~~  
Double Railway Project  
using Civil 3d (Arabic)  
N Scale Tight Curve  
into 4% Grade Incline

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Model Railroad Track

Laying Tips Curves

Easements and

Superelevation

Transition

Curves...what they are  
and how to install them

on your layout. Layout

Update - November

2020: Scaletrains Auto

Racks, War World

Static Grass, River

Resin Pour... Rail Track

Inspection LIDAR

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Mapping and  
Panoramic Video with  
GIS How train track  
change? An

Introduction to Switches  
& Crossings -  
Network Rail  
engineering education  
(12 of 15) Components  
Of Railway Track..

TRV Alignment 1 3  
Light Rail Transit track  
design and analysis -  
CADCreating



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Geometry Part 6: Basic  
Track Geometry Cant  
deficiency | Railway  
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single railway project  
using civil 3d 2015 part  
1 (Arabic)

GEOMETRIC  
DESIGN OF TRACK (   
HORIZONTAL  
CURVES ) - UPSC  
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Geometric Design of  
Highways |  
Transportation

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Cant Deficiency \u0026  
Cant Excess |

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Vishal Sir Advanced

Geomatics: Vertical  
Curve Example:

Elevation ~~Railway~~  
~~Alignment Design And~~  
Geometry

REES Module #6 -

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Railway Alignment  
Design and Geometry 4

Horizontal Geometry  
– Degree of Curve •

Arc (Roadway and  
LRT) – Angle  
measured along the  
length of a section of  
curve subtended by a  
100 ' arc  $D/360 =$   
 $100/2(\pi)R$  – 1-deg  
curve,  $R= 5729.58$  ' –  
7-deg curve,

$R=818.51$  ' • Chord

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(Railroad) – Angle  
measured along

~~Railway Alignment  
Design and Geometry~~

Track geometry is three-  
dimensional geometry of  
track layouts and  
associated

measurements used in  
design, construction and  
maintenance of railroad  
tracks. The subject is  
used in the context of

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standards, speed limits and other regulations in the areas of track gauge, alignment, elevation, curvature and track surface. Although, the geometry of the tracks is three-dimensional by nature, the standards are usually expressed in two separate layouts for horizontal and vertical.

~~Track geometry~~

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~~Wikipedia~~

The direction and position given to the centre line of the railway track on the ground is called the track alignment. The horizontal alignment includes the straight path, its width, deviations in width and horizontal curves. The vertical alignment of a railway track includes

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changes in gradients  
and, vertical curves.

~~Track Alignment in  
Railways |  
Requirements and  
factors ...~~

- Railway alignment design software applications are used to create alignment strings in model space that are geometrically compliant with the chosen limiting

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values. • At the feasibility stage these strings will represent the centre line of the rail alignment from which individual track alignments can be developed at a future stage, when the

## ~~Rail Alignments for New Railways~~

Railway design is the problem of selecting an



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economical alignment based on topography, soil conditions, socioeconomic factors, and environmental impacts such as air pollution and noise as well as expected level of service of the railway in terms of freight or passenger transportation, and other factors.

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## ~~OPTIMUM RAILWAY ALIGNMENT~~

In the proposed railway alignment optimization model, a horizontal alignment is defined by the tangents, circular curves, and the connecting transition curve sections. A vertical alignment is defined by the graded tangents connected with

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parabolic curves.

~~A Model for Optimizing  
Railway Alignment  
Considering ...~~

Geometric Design 1.  
Gradients in the track,  
including grade  
compensation, rising  
gradient, and falling  
gradient. 2. Curvature  
of the track, including  
horizontal and vertical  
curves, transition curves,

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sharpness of the curve in terms of radius or degree of the curve, cant or super elevation on curves, etc. 3.

~~Railway Engineering  
Geometric design of  
track~~

Vertical alignment refers to the slope or grade of the railway, the rate of change of slope, and the vertical radius

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of crests and troughs.

Grade AECOM13

Appendix 2B specifies a  
desirable gradient of

1.25% or below, a

typical maximum of

2.5%, and an

exceptional maximum  
of 3.5%.

~~Track geometry — Hot~~

~~Rails~~

guidelines to give an

appreciation of the

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basics elements of track design starting with horizontal and vertical design. These are the basic elements upon which track design is built. Sections are also included on switch and crossing geometry, clearances and track survey requirements. Network standards have been referenced where appropriate.

# Where To Download Railway

## ~~A Guide to Permanent Alignment Way Design~~

The design pattern for horizontal geometry is typically a sequence of straight line (i.e., a tangent) and curve (i.e. a circular arc) segments connected by transition curves. The degree of banking in railroad track is typically expressed as the

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difference in elevation of the two rails, commonly quantified and referred to as the superelevation.

~~Track transition curve~~  
[Wikipedia](#)

The European Norm for track alignment geometry BSEN 13803-1 (2010), names the following track alignment design parameters: speed



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(km/h); radius of horizontal curve (m); cant (mm); cant deficiency (mm); cant excess (mm); cant gradient (mm/m); length of cant transitions (m); rate of change of cant (mm/s);

~~The limits of the track alignment design parameters | A ...~~

Railway Alignment

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## Design and Geometry

These guidelines are intended to provide information and guidance for the design and specifications for the construction of private railroad tracks and their supporting roadbeds. This document is intended to provide this information to industries and

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varying degrees of  
experience in the ...

~~Railway Track Design  
Manual~~

[This is a draft page] I'll  
collect here all my posts  
on track geometry and  
try to arrange them in a  
logical order ... but it  
will take some time.

General elements Track  
definitions and  
simplifications Track

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centreline. Differences between the centerline radius and the rail radii. Versine convention.

Why a right hand curve is...

~~Track Geometry | A railway track blog~~

Track geometry for high-speed railways A literature survey and simulation of dynamic vehicle response by

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+4687907629 E-mail  
everta@fkt.kth.se

~~Track geometry for high-  
speed railways~~

Abstract Periodic

*Page 29/36*

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recreation of existing railway horizontal alignment geometry is needed for smoothing the deviations arising from train operations. It is important for calibrating track and rebuilding existing railways to ensure safety and comfort.

~~A Method for  
Automatically~~

*Page 30/36*

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~~Recreating the  
Horizontal...~~

Design a best-fit rail alignment for existing conditions Civil 3D provides all the tools you need to manage and create geometry for a best-fit survey.

Regression can use different input options such as Cogo Point, AutoCAD Point, or on-screen input. For the

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best fit, you can exclude specific elements.

~~Use Civil 3D to design rail alignments | Civil 3D 2020 ...~~

This preview shows page 20 - 33 out of 35 pages.. REES Module #6 - Railway Alignment Design and Geometry 20 Designing a Turnout in Plans • Need to know: • PS to PI



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length (B) • Angle (C)

- PS to LLT (A) •

Draw centerline of each  
track • Good to mark

PS & LLT. • 20

Designing a Turnout in  
Plans • Need to know:

- PS to PI length (B) •
- Angle (C) • PS to LLT  
(A)

~~REES Module 6~~

~~Railway Alignment~~

~~Design and Geometry~~

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20... Railway

Convert surveys of track data into full alignments using regression

analysis. Determine the best fit geometry

alignment of your track from a range of survey

data types, including transition types and

cant. You can then use this geometry to

produce design changes.

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~~Rail Track and  
Permanent Way Design  
Software Solutions~~

As shown in Figure 1,  
after a railway has just  
been built, its alignment  
(i.e., originally designed  
alignment) is smooth  
and conforms to the  
applicable railway code.  
However, when trains  
are running on the rail,  
the wheels impact the  
rails and then the track

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centerline deviates from  
the originally designed  
alignment, becoming  
unsmooth.

# Geometry College Of Engineering

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