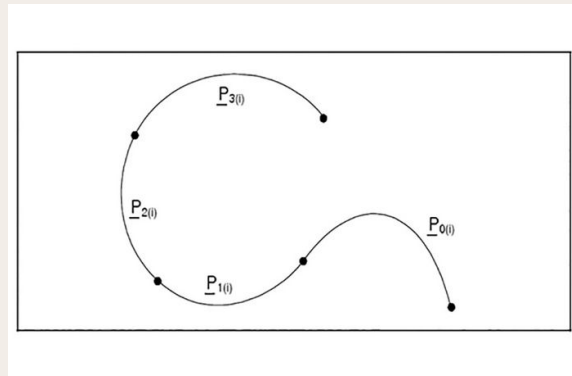


Spline interpolation

Productivity | Performance Increase



Series

MCH

MCH-C

MCI

Control

SIEMENS Powerline

Spline interpolation is used to connect individual nodes with a well-balanced bending line. It efficiently replaces the conventional method of approximation via straight-line blocks.

Characteristics

- _ Connection of point sequences for smooth curves
- _ Faster and more exact method than conventional linear interpolation
- _ Various spline types with different properties and results available
- _ Spline profile set via additional parameters

Benefits

- _ Fast and exact: generation of precise and smooth curves in the CAD system with little computing effort for programmers and machine
- _ Less machine load: quieter handling characteristics of the axes thanks to spline interpolation protects the machine mechanisms
- _ Less data, more feed: conversion of a large number of linear blocks by means of data reduction to a few spline blocks, thereby achieving economical production with faster feed rate