

INTERSECTION DESIGN

- Highway intersection is required to control conflicting and merging streams of traffic so that delay is minimized. This is achieved through the choice of geometric parameters that control and regulate the vehicle paths through the intersection
- Types of At-grade Intersections
- Design Principles for At-grade Intersections
- q **An interchange** is a system of interconnecting roadways used in conjunction with one or more grade separations of highways. It accommodates movement of traffic between two or more roadways at different elevations
 - Justification of Interchange
 - Types of Interchange

TRAFFIC STUDIES AND PARKING FACILITIES

- Travel time and delay studies- A travel time study determines the amount of time required to travel from one point to another on a given route. In conducting such a study, information may also be collected on the locations, duration and causes of delays. When this is done, the study is known as a travel time and delay study.
- ü Application of travel time & delay data
- ü Definition of terms related to time and delay studies
- ü Methods of conducting travel time and delay studies
- q Parking studies- any vehicle travelling on a highway at one time or another be parked for either a relatively short time or much longer time, depending on the reason for parking. The provision of parking facilities is therefore an essential element of highway mode of transportation.
- q Types of parking facilities- On-street & Off-street
- q Definitions of parking terms
- q Methodology of parking studies
- q Analysis of parking data