SUMMARY

About & Imp Points
The chapter looks into appropriate architecture for intelligent vehicles. Example of layered architecture used in Internet has been taken to suggest how efficient it becomes if you have a well-defined layered architecture, where modules belonging to the same layer communicate with each other and assure certain services to modules of the layer above their own. In such a scenario it is possible to change and improve certain modules without affecting the rest of the system.

Modular and Layered architectures have been further surveyed and illustrated with examples. Even in modular architecture the modules can be grouped and connected in various ways depending upon implementation. Layered architecture for platooning systems and sensors has been discussed. Layered architecture gives the flexibility to use design and verification at each layer.

After survey into these architectures, a multi-dimensional architecture has been suggested as the target architecture for intelligent driving applications. This architecture organizes the interaction into stacks which are further divided into layers. A component may use service provided by another stack or the services of the layer beneath it. All the stacks and their functionality are discussed in detail.

2nd Read
Elaborate reading into the target architecture, its stacks, design and functionalities implemented in each stack.