

Ch. 10 Compressible flow — AA CFD

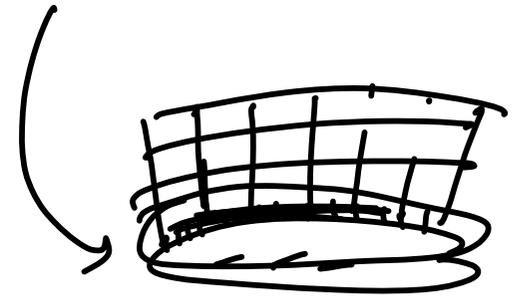
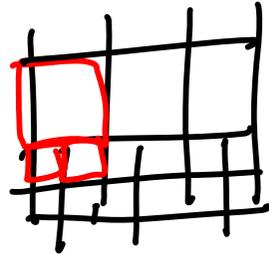
노트 제목

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Ch. 11 Efficiency and accuracy improvement

- errors
 - modeling errors : turbulence, combustion, multi-phase flow ...
 - discretization errors
 - iteration errors
 - programming & user errors
- estimating errors — validation and uncertainty quantification

- grid quality and optimization
- multigrid methods for flow calculation
- adaptive grid methods and local grid refinement
- parallel computing in CFD



Ch. 12 Special Topics

- ① heat and mass transfer
- ② Flows w/ variable fluid properties
- ③ moving grids
- ④ free-surface flows

- ⑤ meteorological and oceanographic applications
- ⑥ multiphase flows
- ⑦ combustion
- ⑧ micro fluid mechanics
- ⑨ bio-medical flows