

23CE711 : Ground Water Hydrology (PE-IV)

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Unit II: Analysis of Pumping Test Data-I

Introduction to Pumping Tests

- Definition and concept of Introduction to Pumping Tests
- Important principles related to Introduction to Pumping Tests
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Steady Flow Concept

- Definition and concept of Steady Flow Concept
- Important principles related to Steady Flow Concept
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Confined Aquifers

- Definition and concept of Confined Aquifers
- Important principles related to Confined Aquifers
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Unconfined Aquifers

- Definition and concept of Unconfined Aquifers
- Important principles related to Unconfined Aquifers
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Flow Toward a Well

- Definition and concept of Flow Toward a Well
- Important principles related to Flow Toward a Well
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Dupuit Assumptions

- Definition and concept of Dupuit Assumptions
- Important principles related to Dupuit Assumptions
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Dupuit Equation

- Definition and concept of Dupuit Equation
- Important principles related to Dupuit Equation
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Thiem Assumptions

- Definition and concept of Thiem Assumptions
- Important principles related to Thiem Assumptions
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Thiem Equation

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Formation Constants

- Definition and concept of Formation Constants
- Important principles related to Formation Constants
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Hydraulic Conductivity

- Definition and concept of Hydraulic Conductivity
- Important principles related to Hydraulic Conductivity
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Transmissivity Determination

- Definition and concept of Transmissivity Determination
- Important principles related to Transmissivity Determination
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Yield of Open Wells

- Definition and concept of Yield of Open Wells
- Important principles related to Yield of Open Wells
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Well Losses

- Definition and concept of Well Losses
- Important principles related to Well Losses
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Interface in Aquifers

- Definition and concept of Interface in Aquifers
- Important principles related to Interface in Aquifers
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Pumping Test Procedure

- Definition and concept of Pumping Test Procedure
- Important principles related to Pumping Test Procedure
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Data Collection

- Definition and concept of Data Collection
- Important principles related to Data Collection
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Data Analysis

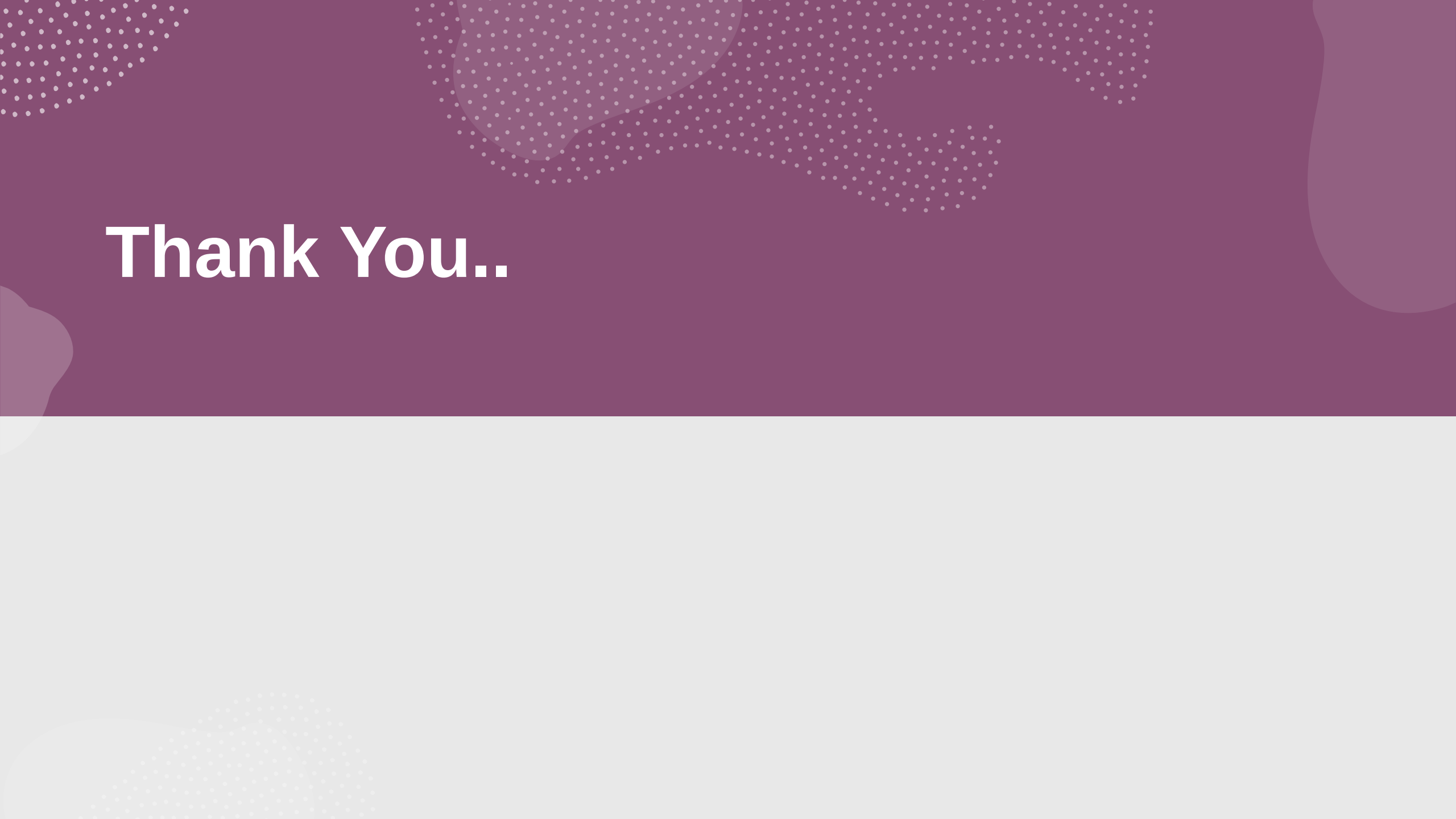
- Definition and concept of Data Analysis
- Important principles related to Data Analysis
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Applications

- Definition and concept of Applications
- Important principles related to Applications
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Summary

- Definition and concept of Summary
- Important principles related to Summary
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable



Thank You..