

23CE711 : Ground Water Hydrology (PE-IV)

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NARSIMHA REDDY ENGINEERING COLLEGE
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Unit III: Analysis of Pumping Test Data-II

Unsteady Flow Concept

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

Non-Equilibrium Flow

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

Theis Solution

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

Assumptions of Theis Method

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

Theis Type Curve

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

Drawdown Analysis

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

Jacob Simplification

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

Cooper-Jacob Method

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

Chow Method

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

Aquifer Parameters

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

Leakage in Aquifers

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

Leaky Aquifer Concept

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

Flow in Leaky Aquifers

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

Pumping Test Interpretation

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

Time-Drawdown Analysis

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

Distance-Drawdown Analysis

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

Practical Applications

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

Advantages

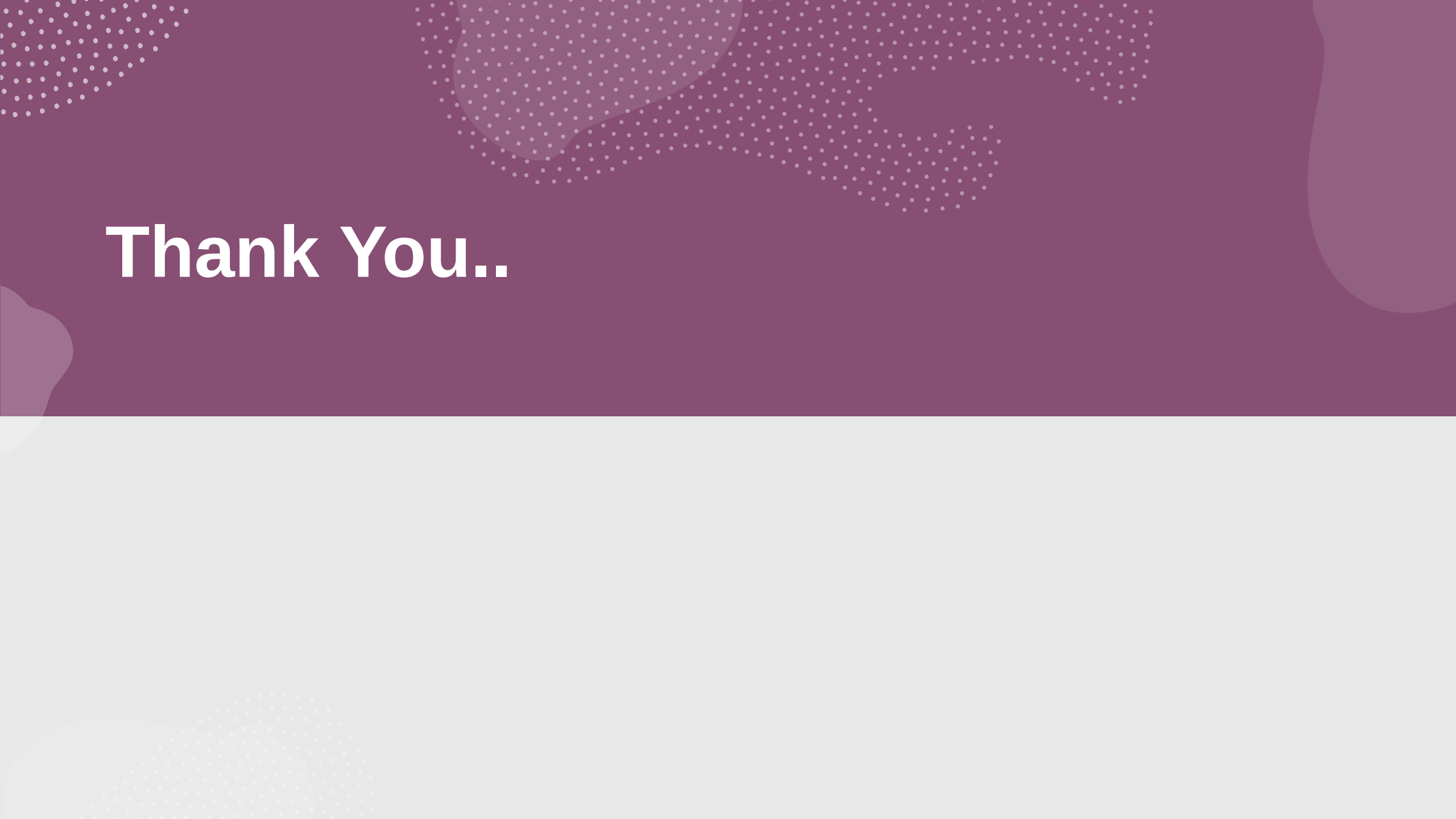
- Definition and concept of Advantages
- Important principles related to Advantages
- Engineering significance and applications
- Examples, diagrams, and calculations where applicable

Limitations

- Definition and concept of Limitations
- Important principles related to Limitations
- 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..