

**WATER LEVEL AND WATER QUALITY INSTRUMENTATION
Selection and Uses in Pollution Investigation and Water Resource
Management**

I. Theory and Application of Water Level Measurements

- A. Definitions
- B. Pressure measurements
- C. Conversion of pressure to water level
- D. Affects of fluid density and gravitational strength
- E. Gauged vs Absolute pressure measurements
- F. Pressure and temperature calibrations

II. Water Level Applications and Typical Installations

III. Water Quality Instrumentation-Uses and Limitations

- A. What's available
- B. Do's and Don't when calibrating
- C. New sensor development

IV. Quarterly Sampling Using Low-Flow Methods