



Thermal Stresses and Temperature Control of Mass Concrete

Zhu Bofang

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Methods of controlling mass concrete temperatures range from relatively simple to complex and from inexpensive too costly. Depending on a particular situation, it may be advantageous to use one or more methods over others. Based on the author's 50 years of personal experience in designing mass concrete structures, *Thermal Stresses and Temperature Control of Mass Concrete* provides a clear and rigorous guide to selecting the right techniques to meet project-specific and financial needs. New techniques such as long time superficial thermal insulation, comprehensive temperature control, and MgO self-expansive concrete are introduced.

- Methods for calculating the temperature field and thermal stresses in dams, docks, tunnels, and concrete blocks and beams on elastic foundations
- Thermal stress computations that take into account the influences of all factors and simulate the process of construction
- Analytical methods for determining thermal and mechanical properties of concrete
- Formulas for determining water temperature in reservoirs and temperature loading of arched dams
- New numerical monitoring methods for mass and semi-mature aged concrete



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