

# High-Performance *Structural Lightweight Concrete*



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SP-218

## PREFACE

This is a compilation of papers addressing “High-Performance Structural Lightweight Concrete” presented October 30, 2002 at the American Concrete Institute Fall Convention in Phoenix, Arizona. This symposium was sponsored by ACI Committee 213, Lightweight Aggregate and Concrete, to report on a wide range of global construction applications incorporating high-performance lightweight-aggregate concrete. This diverse symposium included papers that covered microstructural issues (autogenous shrinkage, internal curing), material and structural properties (transfer length, shear strength, seismic behavior), and applications in large civil structures (long-span balanced cantilever bridges, offshore platform, float-in navigational locks).

We and the members of ACI Committee 213 are grateful to the authors for their important contributions and dissemination of valuable state-of-the-art information.

A significant amount of data from this symposium was immediately incorporated into the revision of ACI 213R-03, “Guide for Structural Lightweight Aggregate Concrete.” We are extremely grateful for the authors’ timely contributions in updating this valuable reference document.

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