The Stability of Concrete Aggregates

Contents

W. J. FRENCH: Introduction ........................................... 205

P. G. FOOKES: An introduction to the influence of natural aggregates on the performance and durability of concrete ........................................... 207

W. J. FRENCH: Reactions between aggregates and cement paste—an interpretation of the pessimum ........................................... 231

A. F. BAKER & A. B. POOLE: Cement hydrate development at opal-cement interfaces and alkali-silica reactivity ........................................... 249

W. J. FRENCH & N. J. CRAMMOND: The influence of serpentine and other rocks on the stability of concretes in the Middle East ........................................... 255

A. B. POOLE & P. SOTIROPOULOS: Reactions between dolomitic aggregate and alkali pore fluids in concrete ........................................... 281

J. E. GILLOTT: Properties of aggregates affecting concrete in North America ........................................... 289

I. C. MOORE & C. D. GRIBBLE: The suitability of aggregates from weathered Peterhead granites ........................................... 305

I. SIMS: Discussion ........................................... 315