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**CEMENT: Summary** 

3.1 Introduction 3.2 Reactions in Early Hydration and Setting: 3.3 Reactions in the Hardening Process; 3.4 Mechanism of Hydration; 3.5 Structure of the Cement Paste; 3.6 Effect of Cement Composition on

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8.1 Introduction 8.2 Specific Gravity and Solid Volume: 8.3 Absorption. Moisture Content, and Permeabllity; 8.4 Unit Weight, Voids Content, and Bulking; 8.5 Strength, Toughness, Hardness, and Deformability; 8.6 Thermal Properties; 8.7 Durabilty and Soundness; 8.8 Porosity in Aggregates; 8.9 Wear and Skid Resistance; Chapter 9. CHEMICAL PROPERTIES OF AGGREGATES; Summary; 9.1 Introduction; 9.2 Deleterious Materials: 9.3 Reactivity of Concrete Aggregates: 9.4 Deterioration of Aggregates by Chemical Attacks from Outside: Chapter 10. GEOMETRIC PROPERTIES OF AGGREGATES; Summary 10.1 Shape and Surface Texture of Particles 10.2 Particle Size: 10.3 Sieves and Screens; 10.4 Grading; 10.5 Sieve Test; 10.6 Grading Curves: 10.7 Grading Representation in Triangular Diagram: 10.8 Numerical Characterization of Grading; 10.9 Average Particle Size of the Complete Grading; Chapter 11. FINENESS MODULUS AND SPECIFIC SURFACE; Summary: 11.1 Fineness Modulus: 11.2 Experimental Justification of the Fineness Modulus: 11.3 Optimum Fineness Moduli: 11.4 Specific Surface; 11.5 Critique of the Specific Surface and Other **Numerical Characteristics** 

## Sommario/riassunto

This book presents an in-depth approach to concrete ingredients and their relationships to concrete by discussing their properties, pertinent test methods, specifications, proper use and selection, and solutions to problems in practice. The approach is practice oriented, and the book assists in the improved application of concrete through a thorough understanding of its ingredients. This is aided by the discussion of certain fundamental aspects and relationships in quantitative forms, and by also presenting the interpretation of research and experience. An extensive bibliography is include

11.6 Attempts to Improve Numerical Grading Characterization