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Sommario/riassunto	Get a fundamental understanding of the science of concrete-mixed seawater and other similar materials in this special issue. While very different from conventional Portland-cement concretes, concretes using seawater, salt-contaminated aggregates, and alternative cements such as calcium sulfoaluminate are a promising option in science and engineering. These concrete types may have significant value in locations like the Middle East, various coasts and islands, and in post-disaster reconstruction scenarios where fresh water is scarce. This book features nine peer-reviewed papers on cementitious materials made using seawater, brine, other impure waters, and salt-contaminated aggregates. Topics include: hydration behavior; compressive strength; corrosion and shrinkage; diffusion modeling; life-cycle analysis; availability and transport of seawater; variability in seawater and effect on concrete properties; corrosion of mixing equipment; sulfate attack and alkali silica reactions.