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COMMUNICATION OF RISKS WITHIN A TRANSPARENT AND ACCOUNTABLE FRAMEWORK IS ESSENTIAL IN VIEW OF INCREASING MOBILITY AND THE COMPLEXITY OF THE MODERN SOCIETY AND THE FIELD OF GEOTECHNICAL ENGINEERING DOES NOT FORM AN EXCEPTION. AS A RESULT, MODERN RISK ASSESSMENT AND MANAGEMENT ARE REQUIRED IN ALL ASPECTS OF GEOTECHNICAL ISSUES, SUCH AS PLANNING, DESIGN, CONSTRUCTION OF GEOTECHNICAL STRUCTURES, MITIGATION OF GEO-HAZARDS, MANAGEMENT OF LARGE CONSTRUCTION PROJECTS, MAINTENANCE OF STRUCTURES AND LIFE-CYCLE COST EVALUATION. THIS VOLUME DISCUSSES: 1. EVALUATION AND CONTROL OF UNCERTAINTIES THROUGH INVESTIGATION, DESIGN AND CONSTRUCTION OF GEOTECHNICAL STRUCTURES; 2. PERFORMANCE-BASED SPECIFICATIONS, RELIABILITY BASED DESIGN AND LIMIT STATE DESIGN OF GEOTECHNICAL STRUCTURES, AND DESIGN CODE DEVELOPMENTS; 3. RISK ASSESSMENT AND MANAGEMENT OF GEO-HAZARDS, SUCH AS LANDSLIDES, EARTHQUAKES, DEBRIS FLOW, ETC.; 4. RISK MANAGEMENT ISSUES CONCERNING LARGE GEOTECHNICAL CONSTRUCTION PROJECTS; 5. REPAIR AND MAINTENANCE STRATEGIES OF GEOTECHNICAL STRUCTURES. INTENDED FOR RESEARCHERS AND PRACTITIONERS IN GEOTECHNICAL, GEOLOGICAL, INFRASTRUCTURE AND CONSTRUCTION ENGINEERING.