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Nota di contenuto	ANALYTICAL METHODS: Governing equations -- One-dimensional problems -- Two-dimensional problems -- Applications -- Advantages of analytical methods -- Limitations of analytical methods -- SEMIANALYTICAL METHODS: Theory -- Combination of uniform flow with point sources and sinks -- Combination of uniform flow with a finite radius source -- Use of a single producing well for monitoring purposes -- Applications -- Advantages of semianalytical methods -- Limitations of semianalytical methods -- NUMERICAL METHODS: Spatial approximations -- Temporal approximations -- Matrix solvers -- Computer codes -- Example of the use of a sophisticated numerical model -- Advantages of numerical methods -- Limitations of numerical methods -- A DISCUSSION ON CHOICE OF METHODS AND DATA NEEDS: Data needs -- Selection of method.