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Título: Parallel Iterative Algorithms. From Sequential To Grid Computing

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Parallel Iterative Algorithms provides a complete theoretical background to allow readers to determine when an iterative algorithm can be used. Presenting the key elements as well as the practical knowledge and methodology to design and implement efficient parallel iterative algorithms, this book demonstrates how to apply these algorithms to solve linear or nonlinear numerical problems in parallel environments, including local, distant, homogeneous, and heterogeneous. Offering an experimental comparison in representative contexts, this text also examines the benefits of asynchronous algorithms over synchronous algorithms in computational contexts, particularly grid computing.