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Título: Alternating Projection Methods

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Fundamentals of Algorithms 08

This book describes and analyzes all available alternating projection methods for solving the general problem of finding a point in the intersection of several given sets belonging to a Hilbert space. For each method the authors describe and analyze convergence, speed of convergence, acceleration techniques, stopping criteria, and applications. Different types of algorithms and applications are studied for subspaces, linear varieties, and general convex sets. The authors also unify these algorithms into a common theoretical framework.

Alternating Projection Methods provides readers with

- ? the theoretical and practical aspects of the most relevant alternating projection methods in a single accessible source;
 - ? several acceleration techniques for every method it presents and analyzes, including schemes that cannot be found in other books;
 - ? full descriptions of several important mathematical problems and specific applications for which the alternating projection methods represent an efficient option; and
- examples and problems that illustrate this material.