



Méthodes Numériques: Algorithmes, analyse et applications (French Edition)

Alfio Maria Quarteroni, Riccardo Sacco, Fausto Saleri

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Ce livre a pour but de présenter les fondements théoriques et méthodologiques de l'analyse numérique. Une attention toute particulière est portée sur les concepts de stabilité, précision et complexité des algorithmes. Les méthodes modernes relatives aux thèmes suivants sont présentées et analysées en détail : résolution des systèmes lineaires et non linéaires, approximation polynomiale, optimisation, intégration numérique, polynômes orthogonaux, transformations rapides, équations différentielles ordinaires. Les techniques présentées sont illustrées par de nombreux tableaux et figures. Beaucoup d'exemples et de contre-exemples sont proposés pour permettre au lecteur de développer son sens critique. Une caractéristique principale du livre réside dans l'abondance des programmes MATLAB qui accompagnent toutes les méthodes numériques présentées et qui les illustrent par des applications concrètes. Le lecteur détient ainsi tous les outils pour acquérir de solides connaissances théoriques et les appliquer directement sur ordinateur. Cet ouvrage s'adresse aux étudiants du second cycle des universités, aux élèves des écoles d'ingénieurs et, plus généralement, à toutes les personnes qui pratiquent le calcul scientifique.

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