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Une introduction aux problèmes inverses elliptiques et paraboliques

Cet ouvrage est consacré à une introduction aux problèmes inverses elliptiques et paraboliques. L'objectif est de présenter quelques méthodes récentes pour établir des résultats d'unicité et de stabilité. Nous traitons quelques problèmes inverses elliptiques, qui sont devenus maintenant classiques: conductivité inverse, détection de corrosion ou de fissures et problèmes spectraux inverses. Parmi les problèmes inverses paraboliques que nous considérons figure le problème classique de retrouver une distribution initiale de la chaleur et la localisation de sources (de chaleur ou de pollution par exemple). Nous nous intéressons aussi à l'identification de coefficients ou de non linéarités. Nous adressons cet ouvrage à tous ceux qui souhaitent s'intéresser à l'analyse mathématique des problèmes inverses. This book is devoted to an introduction of elliptic and parabolic inverse problems. Our goal is to present some recent methods for establishing uniqueness and stability results. We study some classical elliptic inverse problems: inverse conductivity problem, detection of corrosion or cracks and inverse spectral problems. Among the parabolic inverse problems we consider the classic problem of finding an initial distribution of heat and the... *more on* <http://springer.com/978-3-642-02459-7>

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