



# Deconvolution of Images and Spectra

*Peter A. Jansson*

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**Deconvolution of Images and Spectra** is a Second Edition of Janssons 1984 book, **Deconvolution: With Applications in Spectroscopy**. This landmark volume was the first published on deconvolution to provide both an overview of the field, and practical methods and results. In the twelve years since the first book was published, major advances have taken place. For example, researchers have refined projections onto convex sets, improved understanding of other relaxation methods, applied principles of neural networks, and extended the most effective nonlinear methods to image processing.

The significant advances in the years since the First Edition have created the need for this Second Edition, which addresses both the most recent and effective nonlinear constrained methods, and their practical application to a variety scientific and engineering fields. **Deconvolution of Images and Spectra** embraces all the advantages of its predecessor by conveying a clear understanding while providing a selection of effective and practical techniques. The authors assume only a working knowledge of calculus, and emphasize practical applications over topics of purely theoretical interest, focusing on areas that have been pivotal to the evolution of the most effective methods. This tutorial is essentially self-contained; readers will find it to be easy to understand and practical.

## Key Features

- \* Reviews concepts important in the development of the deconvolution field
- \* Includes four completely new chapters presenting material on projections onto convex sets, convergence of relaxation methods, and adaptations to image processing in microscopy and astronomy
- \* Emphasizes the most effective constrained methods
- \* Introduces deconvolution to the beginner
- \* Includes recent advances
- \* Unifies and connects varied approaches
- \* Applies to diverse fields
- \* Details applications to image processing and spectroscopy, especially infrared and electron spectroscopy
- \* Provides a guide to the literature

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