

## A Mathematical Introduction To Compressive Sensing Author Simon Foucart Aug 2013

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A Mathematical Introduction to Compressive Sensing gives a detailed account of the core theory upon which the field is build. With only moderate prerequisites, it is an excellent textbook for graduate courses in mathematics, engineering, and computer science.

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With only moderate prerequisites, A Mathematical Introduction to Compressive Sensing is an excellent textbook for graduate courses in mathematics, engineering, and computer science. It also serves as a reliable resource for practitioners and researchers in these disciplines who want to acquire a careful understanding of the subject.

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Mathematically, the compressive sensing problem reduces to the problem of finding a sparse solution to an underdetermined linear system of equations  $Ax = y$ . Here the vector  $y$  gives the sampled measurements of the signal, the vector  $x$  represents the signal with respect to the sparse basis, and the matrix  $A$  describes how the signal is sampled.

### A Mathematical Introduction to Compressive Sensing ...

This book is a detailed and self-contained introduction to the rich and elegant mathematical theory of compressive sensing. It presents all the necessary background material without assuming any special prior knowledge—just basic analysis, linear algebra, and probability theory.

### Sensing Compressive Introduction to A Mathematical

Abstract. This first chapter formulates the objectives of compressive sensing. It introduces the standard compressive problem studied throughout the book and reveals its ubiquity in many concrete situations by providing a selection of motivations, applications, and extensions of the theory.

### An Invitation to Compressive Sensing | SpringerLink

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