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Computational Complexity in
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This book presents a self-contained overview of the state of the art in the complexity of lattice problems, with particular emphasis on problems that are related to the construction of cryptographic functions.

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The study of lattices, specifically from a computational point of view, was marked by two major breakthroughs: the development of the LLL lattice reduction algorithm by Lenstra, Lenstra and

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Lovasz in the early 80's, and Ajtai's discovery of a connection between the worst-case and average-case hardness of certain lattice problems in the late 90's.

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between the worst-case and
average-case hardness of certain
lattice problems in the late 90's.

Cryptographic Perspective
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essential reference for those researching ways in which lattice problems can be used to build cryptographic systems. It will also be of interest to those working in computational complexity, combinatorics, and foundations of cryptography. The book presents

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a self-contained overview of the state of the art in the complexity of lattice problems, with particular emphasis on problems that are related to the construction of ...

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In other words, A is a discrete additive subgroup of m .

COMPLEXITY OF LATTICE

PROBLEMS Determinant 1.1 The determinant of a lattice $A = \mathbb{Z}(B)$, denoted $\det(A)$, is the n -dimensional volume of the

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fundamental parallelepiped $P(B)$
spanned by the basis vectors.
(See shaded areas in Figures 1.1
and 1.2.)

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Daniele Micciancio and Shafi
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Abstract. We survey some recent

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developments in the study of the complexity of certain lattice problems. We focus on the recent progress on complexity results of intractability. We will discuss Ajtai's worst-case/average-case connections for the shortest vector problem, similar results for

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the closest vector problem and short basis problem, NP-hardness and non-NP-hardness, transference theorems between primal and dual lattices, and application to secure cryptography.

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Lattice Problems books, Lattices are geometric objects that can be pictorially described as the set of intersection points of an infinite, regular n -dimensional grid. Despite their apparent simplicity, lattices hide a rich combinatorial structure, which has attracted

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the attention of great
mathematicians over...

Author Daniele Micciancio
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problems are known to be hard to
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polynomial factors. For larger approximation factors, such as p/n , lattice problems are known to be in complexity classes such as $NP \setminus coNP$ and are hence unlikely to be NP-hard. Here we survey known results in this area.

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On the Complexity of Lattice
Problems with Polynomial ...

In computer science, lattice problems are a class of optimization problems related to mathematical objects called lattices. The conjectured intractability of such problems is

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Central to the construction of secure lattice-based cryptosystems: Lattice problems are an example of NP-hard problems which have been shown to be average-case hard, providing a test case for the security of cryptographic

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algorithms. In addition, some
lattice problems which are worst-
case hard can be used as a basis
for ext

[Lattice problem - Wikipedia](#)

In [4] it was shown that exactly
solving the lattice basis reduction

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problem is equivalent in
complexity to solving the closest
vector problem, meaning that at
least hyper-exponential
complexity ...

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Noah Stephens-Davidowitz (MIT)
Lattices: Algorithms, Complexity,
and Cryptography Boot Camp <https://simons.berkeley.edu/talks/complexity-lattice-problems-0>

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Perspective is an essential

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reference for those researching
ways in which lattice problems
can be used to build
cryptographic systems It will also
be of interest to those working in
computational complexity

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However, before lattice cryptography goes live, we need major advances in understanding the hardness of lattice problems that underlie the security of these cryptosystems. Significant, groundbreaking progress on these questions requires a concerted

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effort by researchers from many areas: (algebraic) number theory, (quantum) algorithms, optimization, cryptography, and coding theory.

Lattices: Algorithms, Complexity,
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