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Hyperbolic Problems.

[Sergey I Kabanikhin;  
Abdigany D Satybaev;  
Maxim A Shishlenin] --

The authors consider  
dynamic types of inverse  
problems in which the  
additional information is  
given by the trace of the  
direct problem on a

(usually time-like) surface  
of the domain.

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Yuan-xin Gu}, title =  
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program for solving one-dimensionally modulated incommensurate structures and composite structures consists of two subsystems with two axes of the unit cell coincided to each other.

**Design and multidimensional extension of iterative methods ...**

Direct search methods are

useful when the optimization function is not differentiable. The gradient of  $f(x,y)$  is the a vector pointing in the direction of the steepest slope at that point. The Hessian is the Jacobian Matrix of second-order partial derivatives of a function.

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**Direct multiple shooting**

## method - Wikipedia

1. Methods for solving one-dimensional problems of g.r.d. The first work on the numerical solution of non-stationary one-dimensional problems of r.g.d. appeared in the late sixties and early seventies. When solving these problems special attention was paid to minimizing the computer time needed to deal with the transport

equation.

**Multiple Choice  
Questions for  
Multidimensional Direct**

...

DIMS is a Direct-methods  
program for solving  
Incommensurate

Modulated Structures or, it  
can also be regarded as a  
program of Direct  
methods In  
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(Fu et al., 1994(Fu et al ...

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**Inverse ...**

This often causes

difficulties and leads

easily to errors. In view of

diffraction analysis, it is possible to phase the reflections directly and solve the structure objectively without relying on any assumption about the modulation wave. Multidimensional direct methods have been developed for this purpose.

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Direct methods In**

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## **Multidimensional Space**

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In the area of mathematics known as numerical ordinary differential equations, the direct multiple shooting method is a numerical method for the solution of boundary value problems. The method divides the interval over which a solution is sought into several smaller intervals, solves an initial value problem in each of the

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smaller intervals, and imposes additional matching conditions to form a ...

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CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): A multidimensional direct

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Multidimensional direct

search methods are similar

to one-dimensional direct

search methods.

Enumerating all possible solutions in a search space and selecting the optimal solutions is an effective method for problems with very high dimensional solution spaces.

**Direct methods for incommensurate intergrowth compounds**

.3 ...

A direct-method program,

DIMS (direct methods for incommensurate modulated structures), has been written to solve the phase problem of incommensurate structures with one-dimensional modulation.

**Direct Methods for Intergrowth Compounds. III. Solving the ...**

Title: Direct methods for



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: Solving the average  
structure in

multidimensional space:

Published in: Acta

Crystallographica Section

a : Foundations of

Crystallography, 52, 640 -

644.

**Direct methods for**

**incommensurate**

**intergrowth compounds**

### .3 ...

The proliferation of iterative methods for solving nonlinear equations has been spectacular in the last years (in we can see a good overview). Some of these methods can be transferred easily to the context of nonlinear systems, keeping the order of convergence, but others, at least apparently,

cannot be extended to multidimensional case.

## **Direct Methods of Solving Multidimensional Inverse ...**

A numerical approach is proposed for solving multidimensional parabolic diffusion and hyperbolic wave equations subject to the appropriate initial and boundary

conditions. The considered numerical solutions of the these equations are considered as linear combinations of the shifted Bernoulli polynomials with unknown coefficients. By collocating the main equations together with the initial and ...

**Multi-Dimensional  
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(1990) Direct analytical methods for solving Poisson equations in computer vision problems. IEEE Transactions on Pattern Analysis and Machine Intelligence 12 :5, 435-446. K. A. Gallivan , R. J. Plemmons , and A. H. Sameh .

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