

## Lehrbuch Der Krankheiten Des Kindes in Seinen Verschiedenen Altersstufen Volume 17, No. 50, PT. 1



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## LEHRBUCH DER KRANKHEITEN DES KINDES IN SEINEN VERSCHIEDENEN ALTERSSTUFEN VOLUME 17, NO. 50, PT. 1



RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 160 pages. Original publisher: Urbana-Champaign, Ill. : Civil Engineering Studies, Civil Engineering Systems Laboratory, University of Illinois, 1990 OCLC Number: (OCoLC)65192192 Excerpt: . . . CHAPTER 1 INTRODUCTION 1. 1. OVERVIEW OF THE PROBLEM Engineers and scientists rely upon numerical methods to solve complex analytical problems. The analysis of such problems has been facilitated by technological advances in electronic computation. The availability of general purpose computers has influenced the development and application of numerical methods in both engineering and in the sciences. This report addresses the issues related developing large scale software for engineering applications on computing hardware known as Multiple Instruction stream Multiple Data stream ( MIMD ) computers. The issues examined herein include the ability to develop architecture-independent software applications and the data management aspects of engineer-ing problems. The finite element method ( FEM ) is used as a focus problem throughout the report. The method grew out of the need to solve structural analysis problems in the aerospace industry during the late 1950 s. Since then, FEM techniques have evolved rapidly, and are now established as a basic method for the analysis of complex engineering problems 15 . The method is widely used in the areas of soil mechanics, heat conduction, aerodynamics, and fluid flow. In structural engineering, it has been used for linear, nonlinear, static, and dynamic analysis of complex problems. In the remainder of this paper, reference to the FEM will be made in the context of its application in structural analysis Engineers are constantly faced with solving problems of increasing complexity and detail. Their insatiable appetite for improved computational performance from the hardware has reached a point where computational requirements often exceed reasonable expecta-tions on the capacity of Von-Neumann type computers. The...

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