Introduction to numerical linear algebra and optimization. Based on courses taught to advanced undergraduate students, this book offers a broad introduction to the methods of numerical linear algebra and optimization. Introduction to Numerical Linear Algebra and Optimization (Philippe E. Gill, Walter Murray, Margaret H. Wright). Addison-Wesley, Reading, Massachusetts, 1997. 1024 pages. ISBN 0-201-67075-4. This text aims to give a thorough description of some of the most commonly used techniques and algorithms of numerical linear algebra and optimization. It is intended for advanced undergraduate and graduate students, as well as for researchers in other disciplines who use these techniques in their work. The book covers a wide range of topics, from the basics of linear algebra to advanced topics such as eigenvalue problems, iterative methods, and optimization techniques. It provides a comprehensive overview of the field, including a wealth of examples and exercises to help students develop a deep understanding of the material. Overall, this book is an excellent resource for anyone looking to gain a solid foundation in numerical linear algebra and optimization.