

**ZMATH 1998c.02030**

**Lay, David C.**

**Linear algebra and its applications.**

Addison-Wesley, Reading, MA (ISBN 0-201-82478-7). 573 p. (1997).

Each chapter of the book contains an introductory example (IE) describing an application of the subject content in real life. Throughout the book, examples and exercises are given with mathematical applications in engineering and science. Contents: Linear equations in linear algebra (IE: Linear models in economics and engineering); Matrix algebra (IE: Computer graphics in automotive design); Determinants (IE: Determinants in analytic geometry); Vector spaces (IE: Space flight and control systems); Eigenvalues and eigenvectors (IE: Dynamical systems and spotted owls); Orthogonality and least-squares (IE: Readjusting the North American datum); Symmetric matrices and quadratic forms (Multichannel image processing); Appendices (Uniqueness of the reduced echelon form; Complex numbers); Glossary; Answers to odd-numbered exercises.

*Classification:* H60