4. Mathematical Linguistics and Machine Translation. Papers by: S. Abraham & G. Salapina, M. Bierwisch, L. Deshoe, Gy. Hell, F. Kiefer, R. B. Lees, S. Marcus, P. Sgall, Gy. Sipoeczy.

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6. Application of Computers in Economics. Papers by: C. A. Aleskerov, J. L. Destouches, S. Ganczer, I. Kiss, B. Krekó, B. Martos, J. Piehler.

7. Artificial Intelligence, Machine Learning. Papers by: H. L. Gelernter, V. M. Glushkov & A. A. Ctogniĭ.

E.I.

42[P, X].—S. O. ASPLUND, Structural Mechanics: Classical and Matrix Methods, Prentice-Hall, Inc., Englewood Cliffs, N. J., 1966, xiii + 474 pp., 24 cm. Price \$14.00.

The purpose of this book is to serve as a text for advanced undergraduates and graduate students in structural mechanics. It treats both determinant and indeterminant structures in great detail. However, the emphasis in this book is somewhat different from the one normally found in a structural mechanics text. The author is very cognizant of the impact of modern high-speed computers on this field and has written his text accordingly. Thus, while classical methods are discussed, matrix methods are emphasized as being the more useful to the practicing engineer.

In many ways this is a remarkable book. It is contemporary and every page reflects the author's familiarity with his subject. Each topic is given a consistently polished development and logic is never sacrificed to intuition. The style of the book may tend to be overly succinct and the notation may cause some difficulty to those familiar with more common notations. However, with these reservations, this is a highly recommended book.

R. W. DICKEY

Courant Institute of Mathematical Sciences New York University New York, New York

43[P, X].—A. HALANAY, Differential Equations: Stability, Oscillations, Time Lags, Academic Press, New York, 1966, xii + 528 pp., 24 cm. Price \$19.50.

This monograph is essentially a translation of the original Rumanian edition of 1963. It presents a unified treatment, for ordinary differential equations and functional-differential equations, of those topics in stability theory and the theory of oscillations which have been at the center of interest during the past decade.

Chapter I concerns the various types of stability, including total and integral stability, that may be defined for the solutions of ordinary differential equations. The setting is that of Lyapunov's Second Method, and the stability criteria given, except for Perron's condition, are either deduced from, or stated directly in terms of appropriate Lyapunov functions. In Chapter II sufficient conditions for the absolute stability of regulator systems are derived, using both Lurie's approach and the method of Popov. Chapter III deals with the existence of periodic and al-