

New Books

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**Knihy došlé do redakce
(Books received)**

Heinz U. Hoppe, Herbert Löthe: Problemlösen und Programmieren mit LOGO — Ausgewählte Beispiele aus Mathematik und Informatik. (MikroComputer-Praxis.) B. G. Teubner, Stuttgart 1984. 166 Seiten; DM 21,80.

Martin Engelen, Heinz Stahn: Software-Engineering — ARS-Technologie. Akademie-Verlag, Berlin 1984. 276 Seiten; 120 Abbildungen; M 45,—.

Christian Posthoff, Eugen-Georg Woschni: Funktionaltransformationen der Informationstechnik. Akademie-Verlag, Berlin 1984. 207 Seiten; 40 Abbildungen; M 28,—.

Li Weixuan: Optimal Sequential Block Search. (Research and Exposition in Mathematics 5.) Heldermann Verlag, Berlin 1984. 210 pages; DM 38,—.

R. TRAPPL, G. J. KLIR, F. R. PICHLER (Eds.)

Progress in Cybernetics and Systems Research — Vol. VIII

Hemisphere Publishing Corporation, Washington—New York—London 1982.

xii + 529 pages; 88.00 \$.

The first part of the volume is concerned with general systems methodology (pp. 15—193). A paper of Löfgren is concerned with Popper-Carnap controversy — i.e. the falsification tests vs. the confirmation of hypothesis. The papers by Krippendorff, Uyttenhove and Wedde are concerned with the structure identification. Sierocki and Tchoň treat reasoning

by analogy and dynamical systems. Jumaric embeds the Thom's elementary catastrophes theory into the general systems. With the Checkland's methodology for solving the concrete systems problems are concerned Molloy, Best and Naughton. Feekes uses the dimensional analysis and energy concepts to offer "a unifying view on us and our world". The most quoted author of the first part of the volume is Klir.

The second part of the volume is concerned with mathematical system theory (pp. 197—440). Zunde and Belinfante describe the lattice characterization of the feedback. Guidorzi et al. treat the structural identification of linear multivariable systems. Bichl is concerned with Kalman's linear systems theory as module theory. Lopes Passos presents a question-answering program system concerned with the general topology. Barnett and Lancaster treat the matrices having striped inverses with application to linear system theory. Xu, Hu, Chung and Xie are concerned in three papers with multi-dimensional signal processing. Peschel and Ester treat the vector optimization.

The third part of the volume treats the fuzzy sets (pp. 443—523). Within this concept Feron analyses the distance and deviation, Arigoni the significativity and relevance, Klement the measures, Wierzchoň the parameters identification, Oppenheim and Dubuisson the energy measure, Febrier the measurements. Zysno treats the paradigm of integration of concepts with down-to-earth application to credit worthiness. Driankov and Dushkov are concerned with Parsons' theory of human actions.

Antonín Vančėek