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lan). Homogeneous and smoothly approximated structures (Dugald Macpherson). Khovanskii's Theorem (David Marker). ACFA and the Manin-Mumford conjecture (Anand Pillay). Decidable equational classes (Matthew A. Valeriote). Schanuel's conjecture and the decidability of the real exponential field (A.J. Wilkie). Three lectures on the RS problem (Ross Willard). Decidable modules (Martin Ziegler). Index.

<u>Cognitive Ecology: The Evolutionary Ecology of Information Processing and Decision Making.</u> Edited by Reuven Dukas. University of Chicago Press, Chicago, IL. (1998). 420 pages. \$95.00, GBP 75.95 hardback, \$30.00, GBP 23.95 paperback.

Contents:

Acknowledgements. 1. Introduction (Reuven Dukas). 2. Neural representation and the evolution of signal form (Magnus Enquist and Anthony Arak). 3. Constraints on information processing and their effects on behavior (Reuven Dukas). 4. Evolutionary ecology of learning (Reuven Dukas). 5. The cognitive ecology of song communication and song learning in the song sparrow (Michael D. Beecher, S. Elizabeth Campbell, and J. Cully Nordby). 6. Cognitive ecology of navigation (Fred C. Dyer). 7. The ecology and neurobiology of spatial memory (David F. Sherry). 8. Risk-sensitive foraging: Decision making in variable elements (Melissa Bateson and Alex Kacelnik). 9. Behavioral decisions about foraging and predator avoidance (Ronald C. Ydenberg). 10. Evolutionary ecology of partner choice (Lee A. Dugatkin and Andrew Sih). 11. Cognitive ecology: Prospects (Reuven Dukas). Contributors. Index.

Analog and Mixed-Signal Hardware Description Language. Edited by A. Vachoux, Jean-Michel Bergé, O. Levia, and Jacques Rouillard. Kluwer Academic Publishers, Boston, MA. (1997). 158 pages. NLG 285.00, \$135.00, GBP 91.80.

Contents:

Series Presentation. Editors. Volume Presentation. Contents. Contributors. 1. Applicability of discrete event hardware description languages to the design and documentation of electronic analog systems (Allen Dewey). 2. VHDL 1076.1: Analog and mixed-signal extensions to VDHL (Ernst Christen, Kenneth Bakalar). 3. Analog extensions to Verilog (Richard Trihy). 4. OP3: A behavioral generic model of operational amplifiers (Ken G. Ruan, Ian E. Getreu). 5. Non-linear state space averaged modeling of a 3-state digital phase-frequency detector (Jess Chen). 6. Behavioural modelling of analogue systems with ABSynth (Vincent Moser, Hans Peter Amann, Fausto Pellandini). 7. VHDL-1076.1 Modeling examples for microsystem simulation (Bart Romanowicz, Yannick Ansel, Matthew Laudon, Christian Amacker, Philippe Renaud, Alain Vachoux, Gerold Schröpfer). Index.

Developing Business Objects. Edited by Andy Carmichael. Cambridge University Press, Cambridge, UK. (1998). 315 pages. \$39.95.

Contents:

About the editor. Foreword. Preface. Contributors. Part 1: Introduction. 1. Objects in business (Andy Carmichael). Part 2: From business strategy to business objects. 2. Building an object business model for a telecommunications company (Karen M. Gardner, Dave Gold, and Teresa Heather). 3. Requirements engineering and business process modeling with SOMA (Ian Graham). 4. A process framework for business objects (Jacques Halé). 5. Business object modeling with aBCd (Jacques Halé). Part 3: The object development process in practice. 6. Developing a financial market analysis product: A MOSES case study (Bhuvan Unhelkar). 7. Fitness for purpose: An examination of popular object-analysis strategies (Sanjiv Gossain). 8. GUIDE—An object-oriented GUI design method (David Redmond-Pyle). 9. Using CORBA to simplify application development (Sean Baker, Sean O'Sullivan). 10. Business objects in object databases (Andrew E. Wade). 11. Java for business objects (Sean Baker, Ronan Geraghty). 12. Developing an object-oriented architecture (Tom O'Rourke). 13. Object-oriented project management (John Nicholls, Andy Carmichael).

<u>Probabilistic Methods for Structural Design</u>. Edited by C. Guedes Soares. Kluwer Academic Publishers, Dordrecht, The Netherlands. (1997). 402 pages. NLG 325.00, \$190.00, GBP 110.00. Contents:

Basic concepts of structural design (J. Ferry Borges). Quantification of model uncertainty in structural reliability (C. Guedes Soares). Response surface methodology in structural reliability (J. Labeyrie). Stochastic modeling of fatigue crack growth and inspection (H.O. Madsen). Probabilistic fatigue assessment of welded joints (N.K. Shetty). Probabilistic modelling of the strength of flat compression members (C. Guedes Soares). Reliability analysis with implicit formulations (J.P. Muzeau and M. Lemaire). Methods of system reliability in multidimensional spaces (R. Rackwitz). Statistical extremes as a tool for design (J. Tiago de Oliveira). Stochastic modelling of load combinations (H.O. Madsen). Time-variant reliability for non-stationary processes by the outcrossing approach (R. Rackwitz). Simulation of stochastic processes and fields to model loading and material uncertainties (G. Deodatis). A spectral formulation of stochastic finite elements (R.G. Ghanem, P.D. Spanos). Stochastic finite elements via response surface: Fatigue crack growth problems (P. Colombi and L. Faravelli). Probability based structural codes: Past and future (J. Ferry Borges). Reliability based seismic design (F. Casciati and A. Callerio). Risk based structural maintenance planning (M.H. Faber).