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Nota di contenuto	Esprit basic research action 3148 DEMON (Design methods based on nets) — Aims, scope and achievements — -- The box calculus: A new causal algebra with multi-label communication -- Modular functional modelling of petri nets with individual tokens -- Interleaving semantics and action refinement with atomic choice -- Maximality preservation and the ST-idea for action refinements -- A fifo-net model for processes with asynchronous communication -- A basic-net algebra for program semantics and its application to occam -- The effect of Vector synchronization: Residue and loss -- Modelling systems with dynamic priorities -- On distributed languages and models for

concurrency -- Partial words versus processes: A short comparison --
A survey of basic net models and modular net classes -- Structural
techniques and performance bounds of stochastic Petri net models --
A survey of recognizable languages of infinite traces -- A survey of
equivalence notions for net based systems.

Sommario/riassunto

The main aims of the series of volumes "Advances in Petri Nets" are: -
to present to the "outside" scientific community a fair picture of recent
advances in the area of Petri nets, and - to encourage those interested
in the applications and theory of concurrent systems to take a closer
look at Petri nets and then join the group of researchers working in this
fascinating and challenging area. The ESPRIT Basic Research Action
DEMON (DEsign Methods based On Nets) has been a focus of
developments within the Petri net community for the last three years.
The papers presented in this special volume have been selected from
papers submitted by participants in DEMON. The papers have been
refereed and appear in revised form. The volume contains technical
contributions giving insights into a number of major achievements of
the DEMON project. It also contains four survey papers covering
important research areas. The volume begins with a description of
DEMON given by its coordinator E. Best.
