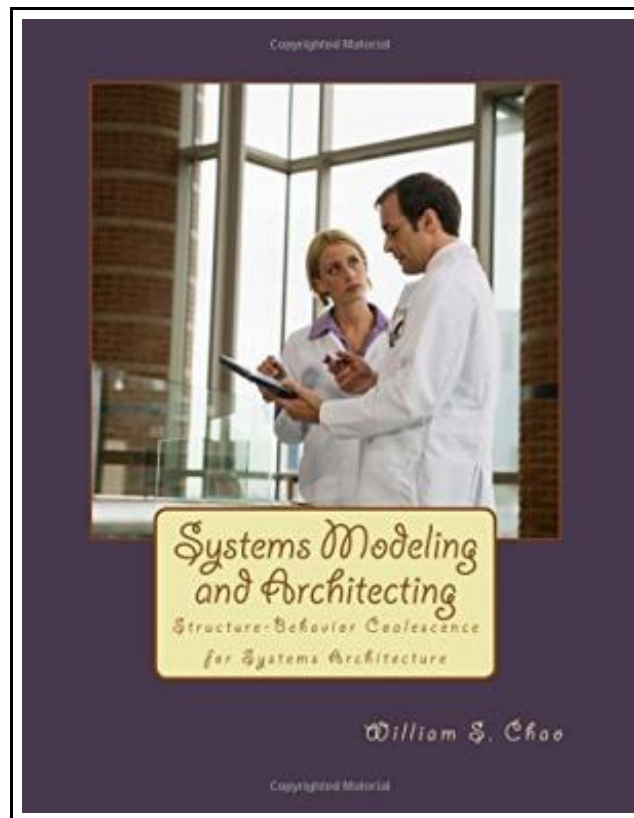# Systems Modeling and Architecting: Structure-Behavior Coalescence for Systems Architecture

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SYSTEMS MODELING AND ARCHITECTING: STRUCTURE-BEHAVIOR COALESCENCE FOR SYSTEMS ARCHITECTURE

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Createspace Independent Publishing Platform, United States, 2014. Paperback. Book Condition: New. 280 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.A system comprises multiple views such as strategy/version n, strategy/version n+1, concept, analysis, design, implementation, structure, behavior and input/output data views. A systems model is required to describe and represent all these multiple views. The systems model describes and represents the system multiple views possibly using two different approaches. The first one is the non-architectural approach and the second one is the architectural approach. The non-architectural approach respectively picks a model for each view. The architectural approach, instead of picking many heterogeneous and unrelated models, will use only one single multiple views coalescence (MVC) architecture model. In general, MVC architecture is said to be synonymous with the systems architecture. Since structure and behavior views are the two most prominent ones among multiple views, integrating the structure and behavior views becomes a superb approach for integrating multiple views of a system. In other words, structure-behavior coalescence (SBC) leads to the coalescence of multiple views. Therefore, we conclude that SBC architecture is also said to be synonymous with the systems architecture. Systems architecture is emerging as an important discipline for hardware, software, enterprise, knowledge, or thinking systems modeling and architecting. This book focuses on the SBC architecture which consists of a) SBC architecture description language (SBC-ADL), b) SBC architecture development method (SBC-ADM) and c) SBC view model (SBC-VM). An architecture description language is a special kind of language used to describe the architecture of a system. SBC-ADL uses six fundamental diagrams to formally grasp the essence of a system and its details at the same time. These diagrams are: a) architecture hierarchy diagram, b) framework diagram, c) component operation diagram, d) component connection diagram, e) structure-behavior coalescence...

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