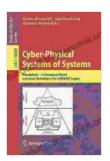
Foundations Conceptual Model And Some Derivations

The Foundations Conceptual Model (FCM) is a general-purpose conceptual model that can be used to represent a wide variety of systems. It is based on the idea that all systems can be decomposed into a set of interacting components. These components can be anything from physical objects to abstract concepts. The FCM provides a way to represent the relationships between these components and to model their behavior.

An example of how the FCM can be used to model the behavior of a physical object is a car. A car can be decomposed into a set of components, such as an engine, a transmission, and wheels. These components interact with each other to produce the behavior of the car. The FCM can be used to represent the relationships between these components and to model their behavior.



Cyber-Physical Systems of Systems: Foundations – A
Conceptual Model and Some Derivations: The
AMADEOS Legacy (Lecture Notes in Computer Science

Book 10099) by Jennifer Cook O'Toole

★ ★ ★ ★ ★ 4.1 out of 5Language: EnglishFile size: 10722 KBText-to-Speech: EnabledEnhanced typesetting: EnabledPrint length: 474 pages

Screen Reader



: Supported

The FCM can also be used to model the behavior of abstract concepts. For example, a company can be decomposed into a set of components, such as departments, employees, and customers. These components interact with each other to produce the behavior of the company. The FCM can be used to represent the relationships between these components and to model their behavior.

The FCM is a powerful tool that can be used to model a wide variety of systems. It is a general-purpose model that can be used to represent both physical and abstract systems. The FCM is also a flexible model that can be tailored to the specific needs of a particular application.

Some Derivations from the FCM

The FCM can be used to derive a number of other conceptual models.

These models can be used to represent specific aspects of a system or to model the behavior of a system in more detail. Some of the most common derivations from the FCM include:

- * The Object-Role Model (ORM) is a data modeling technique that is based on the FCM. The ORM provides a way to represent the relationships between objects in a system. It can be used to model both physical and abstract objects. * The State Transition Model (STM) is a behavioral modeling technique that is based on the FCM. The STM provides a way to represent the states of a system and the transitions between those states. It can be used to model the behavior of both physical and abstract systems.
- * The Event-Driven Process Chain (EPC) is a process modeling technique that is based on the FCM. The EPC provides a way to represent the flow of events in a system. It can be used to model both physical and abstract processes.

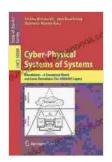
These are just a few of the many derivations that can be made from the FCM. The FCM is a powerful tool that can be used to model a wide variety of systems. It is a general-purpose model that can be used to represent both physical and abstract systems. The FCM is also a flexible model that can be tailored to the specific needs of a particular application.

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The FCM has been used to model a wide variety of systems, including:

* Physical systems, such as cars, airplanes, and computers * Abstract systems, such as companies, organizations, and governments * Social systems, such as families, communities, and nations

The FCM is a valuable tool for understanding the behavior of systems. It can be used to identify the components of a system, the relationships between those components, and the behavior of the system as a whole. The FCM can also be used to derive other conceptual models that can be used to represent specific aspects of a system or to model the behavior of a system in more detail.



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