





Overview			
•	Abstraction layers Processor level System level Present system design • Missing semantics • Modeling algebra • Specify-Explore-Refine System models System platforms Tools and environments Conclusion		
Embedded System Design © 2009: Gajski, Abdi, Gerstlauer, Schirner	Chapter 1: Introduction	7/8/2009	4























Overview			
	Abstraction layers Processor level System level Desent system design Modeling algebra Modeling algebra System models System platforms Tools and environments Conclusion		
Embedded System Desigr © 2009: Gajski, Abdi, Gerstlauer, Schirne	Chapter 1: Introduction	7/8/2009	16



















Necessary models, platforms and tools						
<ul> <li>Design flow with 3 types of designers         <ul> <li>Application designers</li> <li>System designers</li> <li>Implementation designers</li> </ul> </li> <li>Design flow with 3 design models         <ul> <li>Executable specification model (SM)</li> <li>Transaction-level model (TLM)</li> <li>Cycle-accurate model (CAM)</li> </ul> </li> <li>Platform design with 4 component types         <ul> <li>Storage components</li> <li>Storage components</li> <li>Interface components</li> <li>Interface components</li> <li>Metric evaluation with estimation tool</li> <li>Design decisions with synthesis tool</li> <li>Model generation with refinement tools</li> <li>Validation with simulation/verification tool</li> </ul> </li> </ul>	5					
Embedded System Design Chapter 1: Introduction	7/8/2009	26				



















