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Standard-Components and Their Interactions; 4.3.1 XACML Policy Language Model; 4.3.2 XACML Context (Request and Response); 4.3.3 XACML Framework (Data Flow Model); 4.4 ABAC Deployment Using XACML; 4.4.1 Access Policy Formulation and Encoding; 4.4.2 Request/Response Formulation; 4.4.3 Policy Evaluation and Access Decision; 4.5 Implementation of XACML Framework; 4.5.1 Attribute Support and Management  
 4.5.2 Delegation  
 4.6 Review and Analysis; References; Appendix A; 5 Next Generation Access Control; 5.1 Introduction; 5.2 Policy and Attribute Elements; 5.3 Relations; 5.3.1 Assignments and Associations; 5.3.2 Prohibitions Denials; 5.3.3 Obligations; 5.4 NGAC Decision Function; 5.5 Delegation of Access Rights; 5.6 NGAC Administrative Commands and Routines; 5.7 Arbitrary Data Service Operations; 5.8 NGAC Functional Architecture; 5.8.1 Resource Access; 5.8.2 Administrative Access; 5.9 Conclusion; References; 6 ABAC Policy Verifications and Testing; 6.1 Introduction; 6.2 ABAC Policy Classes  
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## Sommario/riassunto

This comprehensive new resource provides an introduction to fundamental Attribute Based Access Control (ABAC) models. This book provides valuable information for developing ABAC to improve information sharing within organizations while taking into consideration the planning, design, implementation, and operation. It explains the history and model of ABAC, related standards, verification and assurance, applications, as well as deployment challenges. Readers find authoritative insight into specialized topics including formal ABAC history, ABAC's relationship with other access control models, ABAC model validation and analysis, verification and testing, and deployment frameworks such as XACML. Next Generation Access Model (NGAC) is explained, along with attribute considerations in implementation. The book explores ABAC applications in SOA/workflow domains, ABAC architectures, and includes details on feature sets in commercial and open source products. This insightful resource presents a combination of technical and administrative information for models, standards, and products that will benefit researchers as well as implementers of ABAC systems in the field.