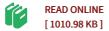# Access Control in Data Management Systems

By Elen Ferrari

Morgan & Claypool. Paperback. Condition: New. 118 pages. Dimensions: 9.2in. x 7.3in. x 0.6in.Access control is one of the fundamental services that any Data Management System should provide. Its main goal is to protect data from unauthorized read and write operations. This is particularly crucial in todays open and interconnected world, where each kind of information can be easily made available to a huge user population, and where a damage or misuse of data may have unpredictable consequences that go beyond the boundaries where data reside or have been generated. This book provides an overview of the various developments in access control for data management systems. Discretionary, mandatory, and role-based access control will be discussed, by surveying the most relevant proposals and analyzing the benefits and drawbacks of each paradigm in view of the requirements of different application domains. Access control mechanisms provided by commercial Data Management Systems are presented and discussed. Finally, the last part of the book is devoted to discussion of some of the most challenging and innovative research trends in the area of access control, such as those related to the Web 2. 0 revolution or to the Database as a Service paradigm. This book is...

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