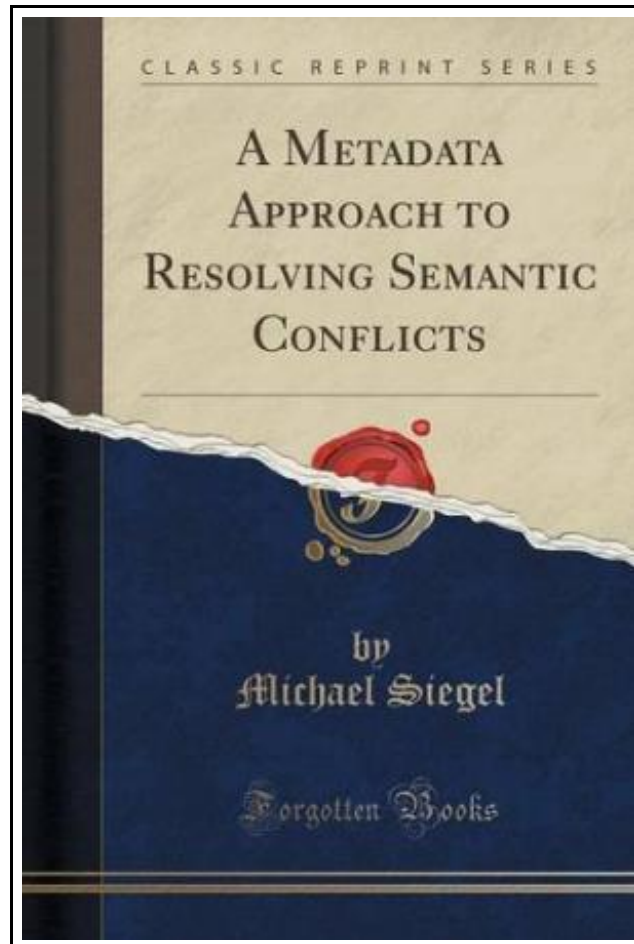# A Metadata Approach to Resolving Semantic Conflicts (Classic Reprint) (Paperback)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Metadata Approach to Resolving Semantic Conflicts Semantic reconciliation is an important step in determining logical connectivity between a data source (database) and a data receiver (application). Semantic reconciliation is used to determine if the semantics of the data provided by the source is meaningful to the receiver. In this paper we describe a rule-based approach to semantic specification and demonstrate how this specification can be used to establish semantic agreement between a source and receiver. We describe query processing techniques that use these specifications along with conversion routines and query modification to guarantee correct data semantics. In addition, this work examines the effect of changing data semantics. These changes may occur at the source of the data or they may be changes in the specifications of the data semantics for the application. Methods are described for detecting these changes and for determining if the database can continue to supply meaningful data to the application. Though described in terms of the source-receiver model, these techniques can also be used for semantic reconciliation and schema integration for multidatabase systems. With the development of complex information systems, the need for the integration of heterogeneous information systems, and the availability of numerous online computer data sources, it has become increasingly important that methods be developed that consider the meaning of the data used in these systems. For example, it is important that an application requiring financial data in French francs does not receive data from a source that reports in another currency. This problem is further complicated by the fact that the source meaning may change at any time; a source that once supplied financial data in French...

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