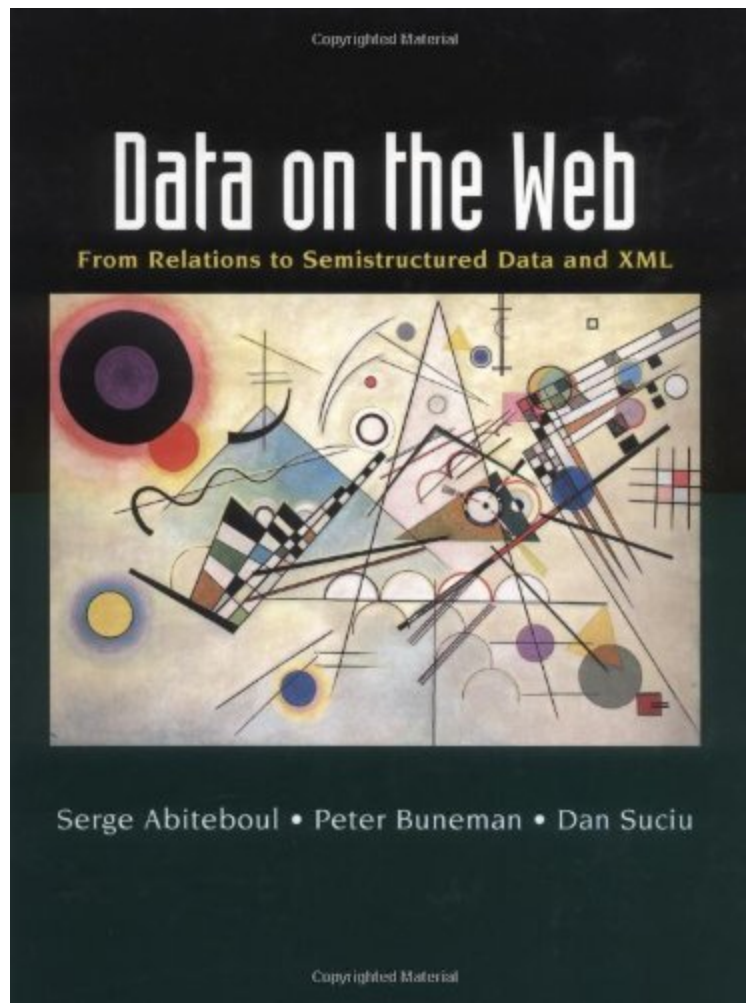


[Free] Data on the Web: From Relations to Semistructured Data and XML (The Morgan Kaufmann Series in Data Management Systems)

Data on the Web: From Relations to Semistructured Data and XML (The Morgan Kaufmann Series in Data Management Systems)

Von Serge Abiteboul, Peter Buneman, Dan Suciu
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Von Serge Abiteboul, Peter Buneman, Dan Suciu : Data on the Web: From Relations to Semistructured Data and XML (The Morgan Kaufmann Series in Data Management Systems) before purchasing it in order to gage whether or not it would be worth my time, and all praised Data on the Web: From Relations to Semistructured Data and XML (The Morgan Kaufmann Series in Data Management Systems):

KundenrezensionenHilfreichste Kundenrezensionen1 von 1 Kunden fanden die folgende Rezension hilfreich. this book does fill a needVon Ein KundeFor the most part, this book covers the academic research on semistructured database management that started in the mid-90s (pre-dating the XML explosion - sometimes research is ahead of practice!). Such issues are not that interesting for folks who are doing bread-and-butter client-side XML development,

and whose interest in "XML" and "databases" is limited to knowing how Oracle 8i implements its "XML out the top" package. However, the book is relevant to people who are already "in" the semistructured data management space - people who are thinking ahead to some of the potential directions that XML query languages might take, for example. The authors are prominent and well-respected in this area. One of my main beefs with the book is that it does not really say anything about what XML databases might look like in practice. This is a tall and perhaps unfair order, since we don't yet have standards for XML schemas and query languages. But I have yet to see XML database proponents provide a clear and convincing explanation of why XML is going to be a way to structure stored data as well as a way of transmitting and reformatting data.

1 von 1 Kunden fanden die folgende Rezension hilfreich. a wonderful connection of the three concepts

Von Ein Kunde

The book provides a wonderful link of the three concepts: Relation, Semistructured, and XML. The discussion is clear and concise. We know that Relation is well used in modelling enterprise data today, since the high performance of RDBMS. On the other hand, XML is well accepted the most suitable for business information representation. The author unified them under the banner of semistructured data model. The text drives the readers into the insight of the data world even though it is in the abstract level. Anyone can be benefitted by reading it if he want to go deep in the XML and data world.

1 von 1 Kunden fanden die folgende Rezension hilfreich. Required reading

Von Joshua Allen

Read this book and understand it unless you want to flounder around solving problems that these guys already thought through. The book is not a "how-to" guide, but rather a discussion of all the abstract concepts you need to master if you want to do things right. I found this book far more readable than some of the research these guys have published, and a very useful starting point for evaluating various products and technologies related to XML and web data.

Kurzbeschreibung

The Web is causing a revolution in how we represent, retrieve, and process information Its growth has given us a universally accessible database but in the form of a largely unorganized collection of documents. This is changing, thanks to the simultaneous emergence of new ways of representing data: from within the Web community, XML; and from within the database community, semistructured data. The convergence of these two approaches has rendered them nearly identical. Now, there is a concerted effort to develop effective techniques for retrieving and processing both kinds of data.

Data on the Web is the only comprehensive, up-to-date examination of these rapidly evolving retrieval and processing strategies, which are of critical importance for almost all Web- and data-intensive enterprises. This book offers detailed solutions to a wide range of practical problems while equipping you with a keen understanding of the fundamental issues including data models, query languages, and schemas involved in their design, implementation, and optimization. You'll find it to be compelling reading, whether your interest is that of a practitioner involved in a database-driven Web enterprise or a researcher in computer science or related field.

- * Provides an in-depth look at XML and other technologies for publishing structured documents on the Web.
- * Examines recently developed methods for querying and updating structured Web documents and semistructured data, including XML-QL and XSL.
- * Looks deeper into the convergence of Web and database approaches to semistructured data presentation and querying.
- * Details practical examples of how these techniques are already being applied and how they will be used in the near future.
- * Teaches sound techniques for writing queries over Web data, describing loose schemas over partially structured data, and implementing and optimizing queries on semistructured data.

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Data on the Web: From Relations to Semistructured Data and XML is an examination of XML as a universal data transfer language and the theory behind the merging of the document-centric Web with a data-driven infrastructure. The book is intended as a textbook analysis of the issues, as well as background material for tool developers and others interested in the serious architectural details. Aimed at readers already familiar with database concepts, the book includes little introductory material. It quickly lays out the concepts of self-describing semi-structured data and how XML fits into this approach to data representation. The discussion deals with XML as a data transfer mechanism and not a presentation language. While there is a quick explanation of DTDs, Xlink, and XPointer, readers should be fairly familiar with XML before approaching this advanced title. The meat of the book revolves around query languages for XML. The authors present XML-QL and XSL in depth as examples. Then they move into much more advanced concepts such as schema formalisms, path constraints, and storage architectures. The book wraps up with a look at Lore and Strudel--two real-world systems that work with semi-structured data. Because of its intensive study of database and query theory, this textbook isn't for the ordinary Web developer. If data architectures are your expertise, however, Data on the Web may open new design doors.

--Stephen W. Plain

Topics covered: Object database models, basic XML syntax, UnQL, XML-QL, XSL, StruQL, schema formalisms, extracting schemas from queries, semistructured data servers, Lore, Strudel, and XML-based database products.

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