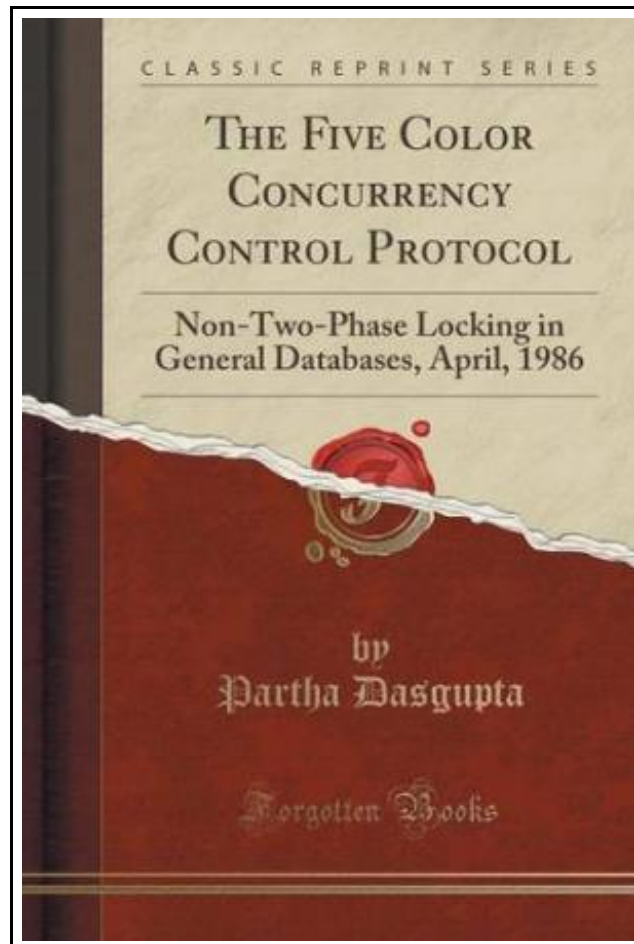


The Five Color Concurrency Control Protocol: Non-Two-Phase Locking in General Databases, April, 1986 (Classic Reprint) (Paperback)



Filesize: 2.07 MB

Reviews

It is an awesome book that we have possibly go through. It is actually written in straightforward words and phrases and not confusing. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Tierra Kunde)

THE FIVE COLOR CONCURRENCY CONTROL PROTOCOL: NON-TWO-PHASE LOCKING IN GENERAL DATABASES, APRIL, 1986 (CLASSIC REPRINT) (PAPERBACK)



Forgotten Books, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from The Five Color Concurrency Control Protocol: Non-Two-Phase Locking in General Databases, April, 1986 Concurrency control protocols that are based on 2-phase locking are a popular family of locking protocols that preserved serializability in general (unstructured database systems. This paper presents a concurrency control algorithm (for databases with no inherent structure) that is practical, non-2-phase and allows varieties of serializable logs not possible with any commonly known locking schemes. The protocol achieves high concurrency by anticipating the existence (or absence) of possible conflicts using information about transaction read and write sets. It is well known that serializability is characterized by acyclicity of the conflict graph representation of interleaved executions. The 2-phase locking protocols allow only forward growth of the paths in the graph. The Five Color protocol allows the conflict graph to grow in any direction (avoiding 2-phase constraints) and prevents cycles in the graph by maintaining transaction access information in the form of data-item markers. The read and write set information can also be used to provide relative immunity from deadlocks. This protocol allows higher concurrency and lower deadlock frequencies than 2-phase locking, according to our simulation studies. This paper presents a concurrency control mechanism that uses five kinds of locks. Unlike the 2-phase locking protocol, the Five Color protocol uses early release of locks to enhance concurrency. The early release of locks causes the protocol to be non-two phase in its locking behavior. It has been shown that 2-phase locking is a necessary condition for serializability in general databases. However we show how serializability can be achieved using a non-two phase protocol by addition of a validation phase. The Five Color protocol does not assume any inherent structures...

 [Read The Five Color Concurrency Control Protocol: Non-Two-Phase Locking in General Databases, April, 1986 \(Classic Reprint\) \(Paperback\) Online](#)
 [Download PDF The Five Color Concurrency Control Protocol: Non-Two-Phase Locking in General Databases, April, 1986 \(Classic Reprint\) \(Paperback\)](#)

Other Kindle Books



Yellow Fever: A Treatise on Its Cause, Nature, Prevention and Cure (Classic Reprint) (Paperback)

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Yellow Fever: A Treatise on Its Cause, Nature, Prevention and Cure Being a question of the...

[Read ePub »](#)



Surface Spectroscopy: For Engineers and Scientists (Paperback)

Createspace Independent Publishing Platform, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.From the Preface The world of spectroscopy began its development in the second half of...

[Read ePub »](#)



Ashes (Paperback)

Createspace Independent Publishing Platform, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.From thriller and suspense master Brett Battles comes Ashes, the fourth book in the continuing...

[Read ePub »](#)



Uniform Laws as to Marriage and Divorce: Hearings Before the Committee on the Judiciary, House of Representatives, Sixty-Fourth Congress, First Session on H. J. Res; 48, Serial 35, April 12, 1916 (Classic Reprint)

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Uniform Laws as to Marriage and Divorce: Hearings Before the Committee on the Judiciary, House of...

[Read ePub »](#)



Dream Sky (Paperback)

Createspace, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.From thriller and suspense master Brett Battles comes Dream Sky, the sixth book in the continuing Project Eden...

[Read ePub »](#)

**Autodesk Revit 2017 (R1) Architecture: Conceptual Design Visualization: Imperial - Autodesk Authorized Author (Paperback)**

Ascent, Center for Technical Knowledge, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.As architects and designers start a project, they frequently think about the overall massing

[Download Book »](#)

**Autodesk Revit 2017 (R1) Structure: Fundamentals - Metric: Autodesk Authorized Publisher (Paperback)**

Ascent, Center for Technical Knowledge, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.To take full advantage of Building Information Modeling, the Autodesk(r) Revit(r)2017 (R1) Structure Fundamentals

[Download Book »](#)

**All New Kindle Fire HD Complete Guide for Seniors: How to Get the Most Out of Your Kindle Devices with Simple Step-By Step Instructions in 30 Minutes. (Paperback)**

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Are you looking for a kindle fire HD guide that could help you get the most

[Download Book »](#)

**Self Learning of Data Science for Free: Skill Development for Data Science Jobs (Paperback)**

Createspace Independent Publishing Platform, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. The amount of data currently generated by the various activities of the society has never been

[Download Book »](#)

**The Irish Question, with Special Reference to Home Rule in Canada: Speeches by the Hon. Edward Blake, M. P., Mr. E. J. C. Morton, and Mr. Robert W. Hamilton, at the Criterion, on**

Forgotten Books, 2017. Paperback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. Excerpt from The

[Download Book »](#)