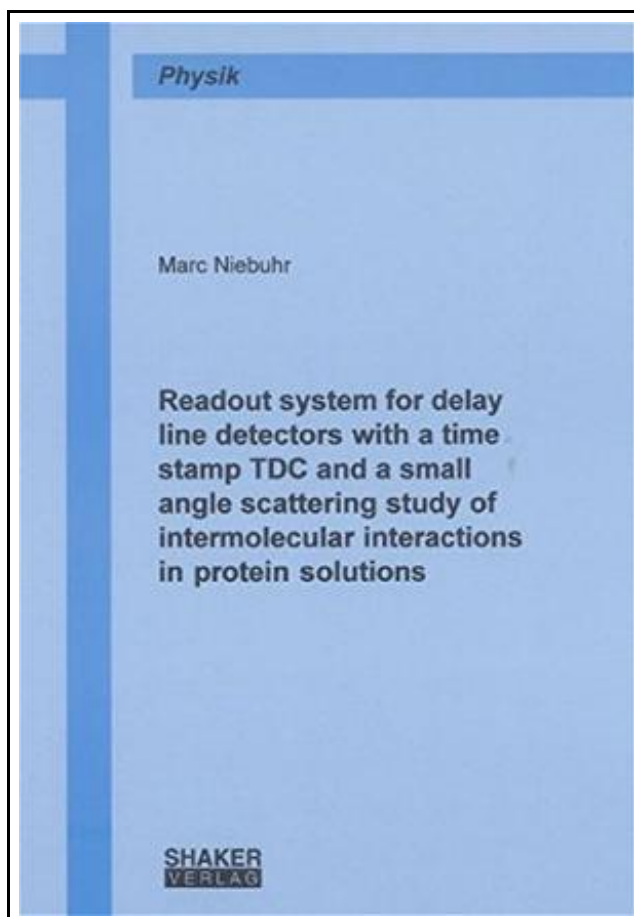


## Readout system for delay line detectors with a time stamp TDC and a small angle scattering study of intermolecular interactions in protein solutions



Filesize: 9.67 MB

### ***Reviews***

*This publication is great. It is full of wisdom and knowledge You will not really feel monotony at at any time of the time (that's what catalogs are for relating to when you ask me).*




*(Dr. Everett Dicki DDS)*

## READOUT SYSTEM FOR DELAY LINE DETECTORS WITH A TIME STAMP TDC AND A SMALL ANGLE SCATTERING STUDY OF INTERMOLECULAR INTERACTIONS IN PROTEIN SOLUTIONS



To download **Readout system for delay line detectors with a time stamp TDC and a small angle scattering study of intermolecular interactions in protein solutions** PDF, remember to follow the button under and download the ebook or have access to additional information that are related to READOUT SYSTEM FOR DELAY LINE DETECTORS WITH A TIME STAMP TDC AND A SMALL ANGLE SCATTERING STUDY OF INTERMOLECULAR INTERACTIONS IN PROTEIN SOLUTIONS ebook.

Shaker Verlag Nov 2004, 2004. Taschenbuch. Book Condition: Neu. 210x149x14 mm. Neuware - The present work consists of two parts: The first part is a contribution to instrumentation and more particularly the development of a readout system for gas detectors used in small angle X-ray scattering (SAXS) and the second part covers the results of an investigation of interactions between proteins in solution. One aim of the instrumentation part was to investigate the role of fluorescence in gas proportional detector with delay line readout, a phenomenon that leads to events, unrelated to the actual scattering pattern. For this purpose a time stamp (TS-) TDC readout was developed that is able to detect simultaneous events in the detector by using all timing information in the anode and cathode signals (check-sum). It was found that the fluorescence of the gas clearly limits the spatial and time resolution in gas detection. The present observations confirm the influence of argon fluorescence on the point-spread function (PSF) and demonstrate that a rejection mechanism that analyses single events only cannot entirely eliminate these effects. The signal-to-noise ratio can, however, be improved by taking the drift time of the electrons and the check-sum of the signals into account. Drift time measurements are made possible by the unique ability of the TS-TDC to correlate the observation of scattered photons with individual radiation bunches in the storage ring. This feature could also facilitate time-resolved measurements with nanosecond-resolution. In the second part of this thesis gas detectors were used in a contribution to an important topic in biophysics: the study of intermolecular interactions in protein solutions. This was done by measuring the structure factors of protein solutions. According to the DLVO theory the main interactions between spherical particles are the hard-sphere interactions, a short range attraction, due to surface-surface forces,...

-  [Read Readout system for delay line detectors with a time stamp TDC and a small angle scattering study of intermolecular interactions in protein solutions Online](#)
-  [Download PDF Readout system for delay line detectors with a time stamp TDC and a small angle scattering study of intermolecular interactions in protein solutions](#)
-  [Download ePUB Readout system for delay line detectors with a time stamp TDC and a small angle scattering study of intermolecular interactions in protein solutions](#)

## Related PDFs



### [PDF] Psychologisches Testverfahren

Click the hyperlink under to read "Psychologisches Testverfahren" document.

[Save Book »](#)



### [PDF] Programming in D

Click the hyperlink under to read "Programming in D" document.

[Save Book »](#)



### [PDF] Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications . (Paperback)

Click the hyperlink under to read "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications . (Paperback)" document.

[Save Book »](#)



### [PDF] The Java Tutorial (3rd Edition)

Click the hyperlink under to read "The Java Tutorial (3rd Edition)" document.

[Save Book »](#)



### [PDF] Learn the Nautical Rules of the Road: An Expert Guide to the COLREGs for All Yachtsmen and Mariners

Click the hyperlink under to read "Learn the Nautical Rules of the Road: An Expert Guide to the COLREGs for All Yachtsmen and Mariners" document.

[Save Book »](#)



### [PDF] Adobe Indesign CS/Cs2 Breakthroughs

Click the hyperlink under to read "Adobe Indesign CS/Cs2 Breakthroughs" document.

[Save Book »](#)

**[PDF] Nautical Coloring Book: An Advanced Adult Coloring Book of Nautical, Maritime and Seaside Scenes (Paperback)**

Access the web link under to download "Nautical Coloring Book: An Advanced Adult Coloring Book of Nautical, Maritime and Seaside Scenes (Paperback)" PDF document.

[Save ePub »](#)

**[PDF] Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)**

Access the web link under to download "Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)" PDF document.

[Save ePub »](#)

**[PDF] Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers (Paperback)**

Access the web link under to download "Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers (Paperback)" PDF document.

[Save ePub »](#)

**[PDF] Adult Coloring Book Birds: Advanced Realistic Bird Coloring Book for Adults (Paperback)**

Access the web link under to download "Adult Coloring Book Birds: Advanced Realistic Bird Coloring Book for Adults (Paperback)" PDF document.

[Save ePub »](#)

**[PDF] Anna's Fight for Hope: The Great Depression 1931 (Sisters in Time Series 20)**

Access the web link under to download "Anna's Fight for Hope: The Great Depression 1931 (Sisters in Time Series 20)" PDF document.

[Save ePub »](#)

**[PDF] Children s Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer (Paperback)**

Access the web link under to download "Children s Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer (Paperback)" PDF document.

[Save ePub »](#)