

## **Variable Star Photoelectric Photometry Data Logging by Computer: Notes of a Fledgling Photometrist**

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### **1. Introduction**

This poster paper describes some details of the adventure of successfully interfacing a photoelectric photometer to a computer through the software package 'ACQ' (Jones, 1991) in what shouldn't normally be an adventure, but should simply work when connected.

### **2. Description of Project**

The purpose of this project is to connect and use a computer to log the data from a photoelectric photometer used for measuring variable star magnitudes, in a location where lack of electrical power does not normally allow use of a computer.

#### **2.1. Description of Astronomical Photoelectric Photometry at Ishpiming Observatory**

An Optec SSP-3 photoelectric photometer is used on the author's 20cm Newtonian telescope to photoelectrically measure magnitudes of variable stars at Ishpiming Observatory near Pickering, Ontario. ('Ishpiming' is a native Ojibwe word meaning "the sky above".) Variable stars observed photoelectrically are chosen from the AAVSO (American Association of Variable Star Observers) program of stars needing photoelectric observations. Some examples of AAVSO program stars monitored at Ishpiming Observatory are: V509 Cas, RS Cnc, EW Lac, V614 Mon, X Per, and VW UMa.

#### **2.2. The Need for Computer**

Without computerized data logging, data can most easily be recorded in the dark by verbally speaking the photometer output numbers into a tape voice recorder (or else by writing onto paper) and then later manually keying the numbers into spreadsheet software, analyzing the data for mistakes and observational error (standard deviation in the resulting magnitude difference) and then keying more numbers into specific AAVSO software for reporting observations. For each observation set (for 1 variable star), the typical number of digits keyed in manually was about 510.

# Photoelectric Photometry Of Variable Sta

**S. Böhme, W. Fricke, H. Hefe, I.  
Heinrich, W. Hofmann, D. Krahn, V. R.  
Matas, L. D. Schmadel, G. Zech**

## **Photoelectric Photometry Of Variable Sta:**

*Advancing Variable Star Astronomy* Thomas R. Williams, Michael Saladyga, 2011-05-26 Founded in 1911 the AAVSO boasts over 1200 members and observers and is the world's largest non profit organization dedicated to variable star observation. This timely book marks the AAVSO's centennial year presenting an authoritative and accurate history of this important association. Writing in an engaging and accessible style the authors move chronologically through five eras of the AAVSO discussing the evolution of its structure and purpose. Throughout the text the main focus is on the thousands of individuals whose contributions have made the AAVSO's progress possible. Describing a century of interaction between amateur and professional astronomers the authors celebrate the collaborative relationships that have existed over the years. As the definitive history of the first hundred years of the AAVSO this text has broad appeal and will be of interest to amateur and professional astronomers as well as historians and sociologists of science in general. *Understanding Variable Stars* John R. Percy, 2007-05-24 This book was first published in 2007. Variable stars are those that change brightness. Their variability may be due to geometric processes such as rotation or eclipse by a companion star or physical processes such as vibration flares or cataclysmic explosions. In each case variable stars provide unique information about the properties of stars and the processes that go on within them. This book provides a concise overview of variable stars including a historical perspective, an introduction to stars in general, the techniques for discovering and studying variable stars and a description of the main types of variable stars. It ends with short reflections about the connection between the study of variable stars and research, education, amateur astronomy and public interest in astronomy. This book is intended for anyone with some background knowledge of astronomy but is especially suitable for undergraduate students and experienced amateur astronomers who can contribute to our understanding of these important stars. Photoelectric Photometry of Variable Stars Douglas S. Hall, 1982 The Study of Variable Stars Using Small Telescopes Royal Astronomical Society of Canada, 1986-12-18 The techniques of visual photographic and photoelectric measurement of variable stars are accompanied by specific examples of the type of scientific results that can be and have been obtained. The Impact of Long-Term Monitoring on Variable Star Research C. Sterken, Mart de Groot, 2012-12-06 Long term monitoring is of fundamental significance in solving many important problems in astrophysics and furthermore has unequalled value in extending observational runs with small telescopes for the education of young astronomers in order to teach them how to secure high quality observational data over many years. *The Impact of Long Term Monitoring on Variable Star Research* contains reports based on the analysis of data collected in the visible, IR and radio measurement ranges as well as the design and history of well known photometric systems. Though the reporting of novel results forms an important part of the book there are also reports of eight discussion sessions covering more general areas such as extinction monitoring, the problems of archival storage of astronomical data, service observation, the role played by long term monitoring in graduate teaching and thesis

supervision the interplay between the great observational effort and theory the contribution of LTM to new knowledge of fundamental data and the increasing decommissioning of telescopes of modest aperture      **Photoelectric Photometry of Variable Stars** Douglas S. Hall, Russell M. Genet, 1984-01-01      *Scientific and Technical Aerospace Reports* ,1968

**American Association of Variable Star Observers, Photoelectric Newsletter** ,1995      The Guide to Amateur Astronomy Jack Newton, Philip Teece, 1995-01-19 How do you choose your first telescope Or build one from first principles What can the deep sky offer you season by season How do you get started in astrophotography And progress to CCD imaging The Guide to Amateur Astronomy answers the questions of the novice and the experienced amateur astronomer in one easy to use and comprehensive account Throughout the emphasis is on practical methods to get you started and then develop your skills with lavish illustrations to show you just what is possible This second edition of the highly successful Guide has been fully revised and updated It now takes you from basic piggyback astrophotography through the use of a cold camera to state of the art CCD imaging from studies of the planets to the most distant objects in the Universe From guidelines for the care and adjustment of your telescope through to lists of the spectral classification of stars amateur astronomy societies and clubs all the information you need for your voyage of discovery and revelation is provided in this self contained helpful guide

AAVSO Kit: Photoelectric Photometry Variable Star Charts ,1983      **Astronomy and Astrophysics Abstracts S.** Böhme, W. Fricke, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-12-14 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 31 contains literature published in 1982 and received before July 15 1982 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English      *Nuclear Science Abstracts* ,1975      **Literature 1979, Part 1** Siegfried Böhme, Ute Esser, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-04-18      *Literature 1969, Part 2* Siegfried Böhme, Walter Fricke, Ulrich Güntzel-Lingner, Frieda Henn, Dietlinde Krahn, Gert Zech, 2012-12-06 Astronomy and Astrophysics Abstracts which appears in semi annual volumes is devoted to the recording summarizing and indexing of astronomical publications throughout the world It aims to present a comprehensive

documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly issued abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 2 contains literature published in 1969 and received before March 15 1970 some older literature which was received late and which is not recorded in Volume 1 is also included The authors of papers who have sent us abstracts on request have effectively contributed to the success of our service We should like to express our gratitude to them We acknowledge with thanks contributions to this volume by Dr J Boua who surveyed journals and publications in Czech language and supplied us with abstracts in English by Dr B Onderlicka Brno for providing English abstracts of Russian papers and by the Commonwealth Scientific and Industrial Research Organization CSIRO Sydney for providing titles and abstracts of papers on radio astronomy

**Literature 1992, Part 1** Astronomisches Recheninstitut, 2013-11-11 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world

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## **Table of Contents Photoelectric Photometry Of Variable Sta**

1. Understanding the eBook Photoelectric Photometry Of Variable Sta
  - The Rise of Digital Reading Photoelectric Photometry Of Variable Sta
  - Advantages of eBooks Over Traditional Books
2. Identifying Photoelectric Photometry Of Variable Sta
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Photoelectric Photometry Of Variable Sta
  - User-Friendly Interface
4. Exploring eBook Recommendations from Photoelectric Photometry Of Variable Sta
  - Personalized Recommendations
  - Photoelectric Photometry Of Variable Sta User Reviews and Ratings

- Photoelectric Photometry Of Variable Sta and Bestseller Lists
- 5. Accessing Photoelectric Photometry Of Variable Sta Free and Paid eBooks
  - Photoelectric Photometry Of Variable Sta Public Domain eBooks
  - Photoelectric Photometry Of Variable Sta eBook Subscription Services
  - Photoelectric Photometry Of Variable Sta Budget-Friendly Options
- 6. Navigating Photoelectric Photometry Of Variable Sta eBook Formats
  - ePub, PDF, MOBI, and More
  - Photoelectric Photometry Of Variable Sta Compatibility with Devices
  - Photoelectric Photometry Of Variable Sta Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Photoelectric Photometry Of Variable Sta
  - Highlighting and Note-Taking Photoelectric Photometry Of Variable Sta
  - Interactive Elements Photoelectric Photometry Of Variable Sta
- 8. Staying Engaged with Photoelectric Photometry Of Variable Sta
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Photoelectric Photometry Of Variable Sta
- 9. Balancing eBooks and Physical Books Photoelectric Photometry Of Variable Sta
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Photoelectric Photometry Of Variable Sta
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Photoelectric Photometry Of Variable Sta
  - Setting Reading Goals Photoelectric Photometry Of Variable Sta
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Photoelectric Photometry Of Variable Sta
  - Fact-Checking eBook Content of Photoelectric Photometry Of Variable Sta
  - Distinguishing Credible Sources



13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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