



THE CONSTANT STAR

The Constant Star

**D. Vanbeveren, W. van Rensbergen, C.
de Loore**



The Constant Star:

The Constant Star Jessica Stirling, 2014-08-14 London in the Blitz the story of The Wayward Wife continues in this compelling saga of love and war Susan Cahill enjoys her job at the BBC until a bomb destroys the building and brings unwelcome responsibilities and an autocratic new boss Walter Boscombe He has no time for ambitious young women from Shadwell and seems determined to break Susan's spirit and her heart Breda Hooper Susan's widowed sister in law and her small son are rescued from the East End's shattered docklands by Danny Susan's estranged husband Settled in a shabby caravan in the Vale of Evesham Breda soon finds herself entangled in village affairs in more ways than one with only her quick wits her new friends and the ever dependable Danny to keep her out of trouble For Susan and Breda jeopardy comes not from the skies but in the terrible price each must pay for falling in love with men who are not all that they seem to be and who even in the midst of all out war will change their lives forever *The Constant Star* Prudence Andrew, 1964 *Your*

Constant Star Brenda Hasiuk, 2014-04-01 Faye is the good adopted Chinese daughter Bev is the wild child Mannie is the unambitious stoner What brings them together and tears them apart is a need to move beyond the clichés and commit to something anything that will bring meaning and joy to their lives When Faye's long lost childhood neighbor Bev turns up out of the blue wanting something from her old friend Faye goes along with Bev's plan But Mannie the joyriding daddy of Bev's baby has a half crazed romantic agenda of his own As one cold miserable prairie spring inches toward summer a series of unexpected and sometimes explosive decisions sends the trio hurtling toward disaster A darkly funny portrayal of three unforgettable teenagers feeling their way into adulthood in an imperfect world *The Lost Era: One Constant Star* David R.

George III, 2014-05-27 An original novel set in The Lost Era time period between Star Trek The Original Series and Star Trek The Next Generation When Captain Demora Sulu leads the crew of U S S Enterprise B on a mission near Tzenkethi space they explore Rejarris II a mysterious planet A strange structure on the surface could hold answers but when a landing party transports down to study it chaos erupts After communication fails with one officer and another is horribly injured Captain Sulu deems the planet too dangerous to continue exploring She decides to leave Rejarris II but not until she can retrieve her lost crew member But when contact is ultimately severed with the captain a Tzenkethi force subsequently appears Could they be behind the mysteries on the planet or the disappearances of the Enterprise officers Regardless will Sulu's crew be able stand up to them long enough to find and retrieve their captain and the other missing personnel *The Constant Star*

Patricia Strother, 1986 *Living in the Design* Dave and Jamie Stadler, 2020-05-12 Sailing engages all the senses and requires an understanding of the natural processes in creation It also allows for long quiet times with others free from distractions on land Living in the Design draws upon parallels of God as revealed in the Scriptures with stories and life lessons of sailing It is intended for use aboard a vessel but could be used on land It can be studied by groups or individuals

Asteroseismology in the Kepler Era Andrzej S. Baran, Anthony Eugene Lynas-Gray, Karen Kinemuchi, 2021-10-13

Supernovae Paul Murdin, Lesley Murdin, 1985-11-07 This revised 1985 edition tells the story of supernovae capturing the flavour of ancient astronomy

The Properties of Star-Forming Galaxies at $Z \sim 2$ Dawn Erb, 2005 We study the properties of star forming galaxies at redshift $z \sim 2$ an era in which a substantial fraction of the stellar mass in the universe formed Using 114 near IR spectra of the H alpha and N II emission lines and model spectral energy distributions fit to rest frame UV through IR photometry we examine the galaxies star formation properties dynamical masses and velocity dispersions spatially resolved kinematics outflow properties and metallicities as a function of stellar mass and age While the stellar masses of the galaxies in our sample vary by a factor of 500 dynamical masses from H alpha velocity dispersions and indirect estimates of gas masses imply that the variation of stellar mass is due as much to the evolution of the stellar population and the conversion of gas into stars as to intrinsic differences in the total masses of the galaxies About 10% of the galaxies are apparently young starbursts with high gas fractions caught just as they have begun to convert large amounts of gas into stars Using the N II H alpha ratio of composite spectra to estimate the average oxygen abundance we find a monotonic increase in metallicity with stellar mass From the estimated gas fractions we conclude that the observed mass metallicity relation is primarily driven by the increase in metallicity as gas is converted to stars The picture that emerges is of galaxies with a broad range in stellar population properties from young galaxies with ages of a few tens of Myr stellar masses $M \sim 10^9$ M_{\odot} and metallicities $Z \sim 0.1$ Z_{\odot} to massive objects with $M \sim 10^{11}$ M_{\odot} $Z \sim Z_{\odot}$ and ages as old as the universe allows All however are rapidly star forming power galactic scale outflows and have masses in gas and stars of at least 10^{10} M_{\odot} in keeping with their likely role as the progenitors of elliptical galaxies

Stellar Astrophysics for the Local Group A. Aparicio, A. Herrero, F. Sánchez, 1998-06-13 A review of the new subject of extragalactic stellar astrophysics for both graduate students and researchers working in astrophysics

The Evolution of Galaxies G. Hensler, G. Stasinska, S. Harfst, P. Kroupa, C. Theis, 2013-11-11 Galaxies have a history This has become clear from recent sky surveys which have shown that distant galaxies formed early in the life of the Universe differ from the nearby ones New observational windows at ultraviolet infrared and millimetric wavelengths provided by ROSAT IRAM IUE IRAS ISO have revealed that galaxies contain a wealth of components very hot gas atomic hydrogen molecules dust dark matter A significant advance is expected from the results of new instruments VLT FIRST XMM which will allow one to explore the most distant Universe Three Euroconferences were planned to punctuate this new epoch in galactic research bringing together specialists in various fields of Astronomy This book contains the proceedings of the third conference and presents the actual state of the art of modelling galaxy evolution

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

Investigating the A-Type Stars Using Kepler Data Simon J. Murphy, 2014-09-20 Simon Murphy's thesis has significant impact on the wide use of the revolutionary Kepler Mission data leading to a new understanding in stellar astrophysics It first provides a deep characterisation and comparison of the Kepler long cadence and short cadence data with particular insight into the Kepler reduction pipeline It then brings together modern reviews of rotation and peculiarities in A type stars and their relationship with the pulsating delta Scuti stars This is the first combined review of these subjects since the classic monograph by Sydney Wolff The A stars was published three decades ago The thesis presents a novel technique Super Nyquist Asteroseismology that has opened up the asteroseismic study of thousands of Kepler stars It shows case studies of delta Scuti stars examining amplitude growth super Nyquist pulsation and pulsation in a high amplitude population II SX Phoenicis star in a 343 d binary This work informs our understanding of the relation of rotation to peculiarity hence has applications to atomic diffusion theory This is a brilliant thesis written in an elegant and engaging style

The Constant Star George BLAKE, 1983

Demographics of the Cold Universe with ALMA Seiji Fujimoto, 2022-01-05 This book presents the cold side of the Universe illustrated by the rest frame far infrared emission with Atacama Large Millimeter submillimeter Array ALMA The author constructed the largest ever ALMA sample and dataset which enables them to identify very faint rest frame far infrared dust continuums as well as the carbon fine structure line emission from distant galaxies that have been missed in previous surveys The observational findings described in this book reveal for the first time where and how much of the star formation traced by the rest frame far infrared emission is ongoing from inter stellar and circum galactic media to cosmic structures Moreover since some of the findings are unexpected and as such challenge the current galaxy formation models the book provides exciting questions that should be addressed in the next decades

The A-Star Puzzle (IAU S224) International Astronomical Union. Symposium, 2005-04-25 Over the last few decades nuclear processes radiation transfer opacities and many other important physical processes have been incorporated in the modelling of stars As knowledge of these processes has advanced it has become clear that other associated physical processes are not well understood This volume investigates these processes focusing on convection diffusion rotation and magnetic fields It is a valuable resource for researchers in the field of stellar astrophysics and graduate students

The Second Washington Catalogue of Stars John Robie Eastman, 1898

Evolution

of Massive Stars D. Vanbeveren, W. van Rensbergen, C. de Loore, 2012-12-06 Massive stars occupy an exceptional place in general astrophysics. They trigger many if not all of the important processes in galactic evolution whereas due to their intrinsic brightness they offer the only until now possibility to study the stellar content and stellar behaviour in distant galaxies. The last say 25 years massive stars have been the subject of numerous meetings discussing the influence of massive stars on population synthesis, the number distribution of different types of massive stars, the LBV phenomenon, WR stars, X-ray binaries, stellar winds in massive stars, chemical peculiarities in massive stars, supernova explosions of massive stars and the important SN1987A event, the influence of massive stars and chemical evolution of galaxies. It is clear that without a theory of stellar evolution the study of these topics loses a lot of its significance. Massive star evolution therefore got a chance in these meetings but rarely as a prime subject. The state of the art, the physical processes and the uncertainties in stellar evolution were barely touched. Even more the influence of close binaries in all these massive star meetings slowly disappeared the last say 13 years without any scientific justification although a significant fraction of stars occurs in close binaries with periods small enough so that both components will interact during their evolution. Denying the binaries or not discussing their influence on results and conclusions makes the latter very uncertain or even completely unreliable. **The New Cosmos** A. Unsöld, B. Baschek, 2013-04-17 to the Second Edition The development of astronomy in the last ten years has been nothing short of explosive. This second edition of *The New Cosmos* considerably revised and enlarged tries to share this development with its readers. Let us mention a few key words from modern astronomy: planetary probes, continental drift, pulsars, X-ray and gamma-ray sources, interstellar molecules, quasars and the structure and evolution of stars and stellar systems right up to cosmological models. As before the most important task of this book is to give a not too difficult introduction to present day astronomy and astrophysics both to the student of astronomy and to the specialist from a neighboring discipline. We therefore draw to the attention of the reader as an essential part of our description the numerous illustrations, many of them new and their detailed captions. As far as possible we link a description of important observations with basic features of the theory. On the other hand when it comes to detail we often content ourselves with a brief description leaving the detailed explanation to the specialist literature. The transition to the specialist literature should be eased by the Bibliography at the end of the book. Important new investigations are noted in the text by their year, not so much for historical reasons as to enable the original work to be found in the *Astronomy and Astrophysics Abstracts* 1969 on On the Internal Constitution of the Stars Svein Rosseland, 1926

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