



# Evolution of Stars and Stellar Populations

By Salaris, Maurizio; Cassisi, Santi

Wiley, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.1. Stars and the Universe.1.1 Setting the stage.1.2 Cosmic kinematics.1.2.1 Cosmological redshifts and distances.1.3 Cosmic dynamics.1.3.1 Histories of  $R(t)$ .1.4 Particle- and nucleosynthesis.1.5 CMB fluctuations and structure formation.1.6 Cosmological parameters.1.7 The inflationary paradigm.1.8 The role of stellar evolution.2. Equation of State of the Stellar Matter.2.1 Physical conditions of the stellar matter.2.1.1 Fully ionized perfect gas.2.1.2 Electron degeneracy.2.1.3 Ionization.2.1.4 Additional effects.3. Equations of Stellar Structure.3.1 Basic assumptions.3.1.1 Continuity of mass.3.1.2 Hydrostatic equilibrium.3.1.3 Conservation of energy.3.1.4 Energy transport.3.1.5 The opacity of stellar matter.3.1.6 Energy generation coefficient.3.1.7 Evolution of chemical element abundances.3.1.8 Virial theorem.3.1.9 Virial theorem and electron degeneracy.3.2 Method of solution of the stellar structure equations.3.2.1 Sensitivity of the solution to the boundary conditions.3.2.2 More complicated cases.3.3 Non-standard physical processes.3.3.1 Atomic diffusion and radiative levitation.3.3.2 Rotation and rotational mixings.4. Star Formation and Early Evolution.4.1 Overall picture of stellar evolution.4.2 Star formation.4.3 Evolution along the Hayashi track.4.3.1 Basic properties of homogeneous, fully convective stars.4.3.2 Evolution until hydrogen burning ignition.5. The Hydrogen Burning Phase.5.1 Overview.5.2 The nuclear reactions.5.2.1 The p-p chain.5.2.2 The CNO cycle.5.2.3 The secondary elements: The case of  $^2\text{H}$  and  $^3\text{He}$ .5.3 The central H-

## Reviews

*It is fantastic and great. This is for those who statte there was not a worth looking at. Its been written in an exceptionally easy way which is only soon after i finished reading this ebook through which in fact changed me, change the way i really believe.*

-- **Barry O'Reilly**

*This kind of book is every little thing and made me searching ahead of time plus more. This is certainly for anyone who statte that there was not a well worth reading through. Its been developed in an remarkably straightforward way in fact it is simply following i finished reading this pdf in which really modified me, alter the way i really believe.*

-- **Ivy Pollich**

## You May Also Like



### **Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)**

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How and Which Niche? Market Analysis: Who Are...



### **Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep**

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children unwind and go to sleep. The underlying...



### **The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)**

Cengage Learning, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: You can now maximize and integrate the design and development power of Adobe Creative Suite 6 with WEB COLLECTION REVEALED PREMIUM EDITION. This one of...



### **Maisy's Christmas Tree**

Candlewick, 2014. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: The final scene of the gang caroling around the tree, complete with paper crowns from British Christmas crackers, is delightful. Toddlers celebrating the holiday will enjoy...



### **The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3 (Paperback)**

Createspace, United States, 2012. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.After six years as a private investigator, Stacey Alexander has the strangest day of her life when she falls down...



### **Sarah's New World: The Mayflower Adventure 1620 (Sisters in Time Series 1)**

Barbour Publishing, Inc., 2004. Paperback. Book Condition: New. No Jacket. New paperback book copy of Sarah's New World: The Mayflower Adventure 1620 by Colleen L. Reece. Sisters in Time Series book 1. Christian stories for girls. Sisters in Time Series. Age 8-12,...