

1. Record Nr.	UNINA9910300404903321
Autore	Michaud Georges
Titolo	Atomic Diffusion in Stars / / by Georges Michaud, Georges Alecian, Jacques Richer
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-19854-8
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (333 p.)
Collana	Astronomy and Astrophysics Library, , 0941-7834
Disciplina	523.01
Soggetti	Astrophysics Nuclear physics Cosmology Astrophysics and Astroparticles Particle and Nuclear Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Observational Motivation and Brief History -- Part I: Physics of Transport Processes -- Atomic Transport: Diffusion Equations -- Radiative Accelerations -- Transport Coefficients -- Diffusion in Magnetic Fields -- Light Induced Drift -- Macroscopic Transport Processes -- Part II: Abundance Anomalies in Stellar Evolution -- Upper Main Sequence Stars of Pop I -- Lower Main Sequence Stars of Pop I -- Population II Dwarfs -- Giants -- Horizontal-Branch Stars -- White Dwarfs -- Neutron Stars -- Part III: Appendices -- Evaluation of Collision Integrals -- Definition of the linlog Function -- List of Astronomical Objects -- References -- Index.
Sommario/riassunto	This book gives an overview of atomic diffusion, a fundamental physical process, as applied to all types of stars, from the main sequence to neutron stars. The superficial abundances of stars as well as their evolution can be significantly affected. The authors show where atomic diffusion plays an essential role and how it can be implemented in modelling. In Part I, the authors describe the tools that are required to include atomic diffusion in models of stellar interiors and atmospheres. An important role is played by the gradient of partial

radiative pressure, or radiative acceleration, which is usually neglected in stellar evolution. In Part II, the authors systematically review the contribution of atomic diffusion to each evolutionary step. The dominant effects of atomic diffusion are accompanied by more subtle effects on a large number of structural properties throughout evolution. One of the goals of this book is to provide the means for the astrophysicist or graduate student to evaluate the importance of atomic diffusion in a given star.

2. Record Nr.	UNINA9910284438603321
Autore	Rogers Alan, Prof
Titolo	The Base of the Iceberg : Informal Learning and Its Impact on Formal and Non-formal Learning // Alan Rogers
Pubbl/distr/stampa	Leverkusen, : Verlag Barbara Budrich, 2014
ISBN	9783847402589 3847402587
Edizione	[1st ed.]
Descrizione fisica	1 online resource (0 p.)
Collana	Study Guides in Adult Education
Disciplina	371.04
Soggetti	Informal learning lifelong learning continuing education
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover ; The Base of the Iceberg. Informal Learning and Its Impact on Formal and Non-formal Learning; Contents ; Preface ; I. Introduction: "Unsettling tradition" ; 1.1 From 'education' to 'learning': a change of Discourse; 1.2 The dangers of confusion; II The Iceberg: Exploring the Relationship between Formal, Non-Formal and Informal Learning ; 2.1 Three kinds of learning; 2.1.1 Expanding the definitions ; 2.1.2 Intention and agency in learning ; 2.1.3 The learning continuum ; 2.1.4 Relationship of formal, non-formal and informal learning; 2.1.5 A tool of analysis 2.2 What is learning?2.2.1 Learning as process ; 2.2.2 Learning what? ; 2.2.3 Learning as change - domains of change ; 2.2.4 Learning in

contexts ; 2.3 Summary; III The Base of the Iceberg: Informal Learning, its Nature and Processes ; 3.1 The nature of informal learning; 3.2 The processes of informal learning; 3.3 Summary; IV Informal (prior) Learning: What has been Learned; 4.1 Prior learning; 4.1.1 Pre-understanding; 4.1.2 Funds of knowledge ; 4.1.3 Frames of reference ; 4.1.4 Imaginaries and Discourses ; 4.2 All these attributes have been and are being learned; 4.3 Summary
V Interactions between Informal Learning and Formal/Non-Formal Learning 5.1 Relations of formal and non-formal learning; 5.1.1 Teaching and learning ; 5.1.2 Similarities and differences ; 5.1.3 The changing balance between formal and non-formal learning ; 5.2 Relations between formal/non-formal learning and informal learning; 5.2.1 Similarities and differences ; 5.2.2 The contemporary dominance of formal learning ; 5.3 Taking account of informal learning; 5.3.1 The demeaning of informal learning ; 5.3.2 What learners bring to new learning from informal learning
5.4 The interaction of informal and formal learning: four approaches
5.4.1 Using informal to assist formal and non-formal learning ; 5.4.2 Using formal and non-formal learning to redress informal learning; 5.4.3 Giving recognition and value to informal learning ; 5.4.4 Promoting continual dialogic learning ; 5.5 Some questions for teachers; 5.6 Summary; VI Conclusion: Does it matter? ; 6.1 Why is this discussion important?; Bibliography ; Index; About the Author

Sommario/riassunto

Alan Rogers looks at learning (formal, nonformal and informal) and examines the hidden world of informal (unconscious, unplanned) learning. He points out the importance of informal learning for creating tacit attitudes and values, knowledge and skills which influence (conscious, planned) learning – formal and non-formal. Moreover, he explores the implications of informal learning for educational planners and teachers in the context of lifelong learning. While mainly aimed at adult educators, the book's arguments apply also to schooling and higher education, in both industrialised societies and developing countries where large numbers of children and adults are not and have not been in school and so rely on informal learning to manage change. [...] I would strongly recommend this book to all adult educators in general because as Rogers concludes, "Without informal learning, none of us would grow; and without the products of informal learning, none of our planned learning programmes would be effective" (p. 79). Adult Education Quarterly 66/2016 In conclusion, Rogers calls for a revision of the way we look at learning in order to cease interpreting it as what happens in agency-organised contexts and open its meaning to all learning, with special attention to what goes on outside planned learning experiences. International Review of Education 61/2015 The base of the iceberg [...] is a thick and deep theoretical discussion on education by Alan Rogers, a well-known author in the field. International Review of Education – Journal of Lifelong Learning 5/2015
