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Titolo	Star Formation in Galaxy Evolution: Connecting Numerical Models to Reality : Saas-Fee Advanced Course 43. Swiss Society for Astrophysics and Astronomy // by Nickolay Y. Gnedin, Simon C. O. Glover, Ralf S. Klessen, Volker Springel ; edited by Yves Revaz, Pascale Jablonka, Romain Teyssier, Lucio Mayer
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ISBN	3-662-47890-0
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (375 p.)
Collana	Saas-Fee Advanced Course, , 1861-7980 ; ; 43
Disciplina	523.88
Soggetti	Astrophysics Observations, Astronomical Astronomy—Observations Mathematical physics Cosmology Astrophysics and Astroparticles Astronomy, Observations and Techniques Theoretical, Mathematical and Computational 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	Physical Processes in the Interstellar Medium -- High performance computing and numerical modelling -- Index.
Sommario/riassunto	This book contains the elaborated and updated versions of the 24 lectures given at the 43rd Saas-Fee Advanced Course. Written by four eminent scientists in the field, the book reviews the physical processes related to star formation, starting from cosmological down to galactic scales. It presents a detailed description of the interstellar medium and its link with the star formation. And it describes the main numerical computational techniques designed to solve the equations governing self-gravitating fluids used for modelling of galactic and extra-galactic systems. This book provides a unique framework which is needed to develop and improve the simulation techniques designed for

understanding the formation and evolution of galaxies. Presented in an accessible manner it contains the present day state of knowledge of the field. It serves as an entry point and key reference to students and researchers in astronomy, cosmology, and physics.

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