

1. Record Nr.	UNINA9910796103803321
Autore	Joubert Sarah
Titolo	Learning problem solving // written by Sarah Joubert [and four others]
Pubbl/distr/stampa	San Diego, CA : , : Classroom Complete Press, , [2017] ©2017
ISBN	1-77167-647-7
Descrizione fisica	1 online resource (60 pages)
Collana	21st Century Skills Series
Disciplina	372.7
Soggetti	Problem solving - Study and teaching (Elementary) Problem-based learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Grades 3-8+, Reading level 3-4."

2. Record Nr.	UNINA9910983042203321
Autore	Iuorio Ornella
Titolo	From Mass Prefab to Mass Customization : Modern Methods of Constructions from Experimentation to Manufacturing // by Ornella Iuorio
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031733277 9783031733260
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (0 pages)
Collana	PoliMI SpringerBriefs, , 2282-2585
Disciplina	690.06
Soggetti	Construction industry - Management Industrial engineering Production engineering Sustainability Sustainable architecture Real estate business Construction Management Industrial and Production Engineering Sustainable Architecture/Green Buildings Real Estate Economics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Historical evolution of prefabrication -- Additive Manufacturing and Automation in Construction -- Engineering the systems The role of research and development -- The role of prefab in the context of climate emergency -- Emblematic prefab systems.
Sommario/riassunto	This book provides an overview of the latest innovations in prefabrication. It analyzes how digital, material, and process innovations are transforming the mass prefabrication of homes, schools, and offices into mass customization. It provides an understanding of available manufacturing processes, including distributed ownership of manufacturing, platform approaches, and robotics. It discusses how the integration of cutting-edge advanced

construction techniques, coupled with robotic manufacturing and assembly from the earliest stages of building system design, has the potential to unlock new formal and technical paradigms. Investigating the impact of prefab in the context of climate emergency, the book analyzes the capacity and shortfall in delivering net zero emissions. It discusses the opportunities that Modern Methods of Construction provide to enable the transition towards circular constructions, from reuse to retrofiting. Including the users' experience, it demonstrates the importance of developing methodologies for capturing users' occupancy evaluation, as a means for understanding real performances, benchmarking indicators, and tuning systems to target the long-term well-being of the occupants. Referring to a plethora of emblematic cases, this work demonstrates the importance of investing in research and development to optimize construction systems, reduce material use, facilitate lean construction, advance mechanical and environmental performances, and move toward circular systems to close the loop. This book is aimed at practitioners, architects, technologists, researchers, and students in architectural engineering.
