1.	Record Nr.	UNINA9910438150503321
	Autore	Srivastava Shashi Mohan
	Titolo	A Course on Mathematical Logic / / by Shashi Mohan Srivastava
	Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2013
	ISBN	1-4614-5746-7
	Edizione	[2nd ed. 2013.]
	Descrizione fisica	1 online resource (206 p.)
	Collana	Universitext, , 0172-5939
	Disciplina	511.3
	Soggetti	Mathematical logic
		Algebra
		Mathematical Logic and Foundations
		Mathematical Logic and Formal Languages
	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 -- 1 Syntax of First-Order Logic -- 2 Semantics of First-Order Languages -- 3 Propositional Logic -- 4 Completeness Theorem for First-Order Logic -- 5 Model Theory -- 6 Recursive Functions and Arithmetization of Theories -- 7 Incompleteness Theorems and Recursion Theory -- References -- Index.
	Sommario/riassunto	This is a short, modern, and motivated introduction to mathematical logic for upper undergraduate and beginning graduate students in mathematics and computer science. Any mathematician who is interested in getting acquainted with logic and would like to learn Gödel's incompleteness theorems should find this book particularly useful. The treatment is thoroughly mathematical and prepares students to branch out in several areas of mathematics related to foundations and computability, such as logic, axiomatic set theory, model theory, recursion theory, and computability. In this new edition, many small and large changes have been made throughout the text. The main purpose of this new edition is to provide a healthy first introduction to model theory, which is a very important branch of logic. Topics in the new chapter include ultraproduct of models, elimination of quantifiers, types, applications of types to model theory, and applications to algebra, number theory and geometry. Some proofs, such as the proof of the very important completeness theorem, have

been completely rewritten in a more clear and concise manner. The new edition also introduces new topics, such as the notion of elementary class of structures, elementary diagrams, partial elementary maps, homogeneous structures, definability, and many more. Review from the first edition: "All results included in the book are very carefully selected and proved. The author's manner of writing is excellent, which will surely make this book useful to many categories of readers." --Marius Tarnauceanu, Zentralblatt MATH.

2.

Record Nr.	UNINA9910585936803321
Autore	Kim Ick-Soo
Titolo	Electrospun Composite Nanofibers for Functional Applications
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (168 p.)
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This reprint includes research articles on various applications of electrospun nanofibers. Nanofibers have potential to be used in tissue engineering, energy harvesting, sensors, separators, water filtration, air filtration, and other applications as well. This Special Issue has received 11 interesting research articles, which covers such application areas.