1.	Record Nr.	UNINA9910460112903321
	Autore	Ollerton Mike
	Titolo	100+ ideas for teaching mathematics / / Mike Ollerton
	Pubbl/distr/stampa	London, [England] ; ; New York, New York : , : Continuum, , 2011 ©2007
	ISBN	1-4411-0302-3 1-4411-3748-3
	Edizione	[Second edition.]
	Descrizione fisica	1 online resource (161 p.)
	Collana	Continuum One Hundreds Series
	Disciplina	510.71
	Soggetti	Mathematics - Study and teaching Electronic books.
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di contenuto	Cover; Half-title; Title; Copyright; CONTENTS; ACKNOWLEDGEMENTS; INTRODUCTION; SECTION 1 A number of number puzzles; 1 100 SQUARE 1 Observing patterns on a 100 grid, summing sequences; 2 100 SQUARE 2 Coding moves on a 100 grid, arithmetic; 3 CARD TRICKERY 1 The arithmetic behind a card trick; 4 CARD TRICKERY 2 Another card trick and more arithmetic; 5 FIVES AND THREES Dominoes and arithmetic; 6 CONSECUTIVE SUMS Consecutive numbers and consecutive sums; 7 DIVISORS 1 Deciding on divisors; 8 DIVISORS 2 Developing divisors; 9 DIVISORS 3 Exploring divisors 10 DIVISORS 4 Lowest Common Multiples and divisors11 DOUBLING AND DOUBLING AND . . . Arithmetic by continually doubling (ABCD); 12 DOUBLING IN MODULAR ARITHMETIC Exploring modular arithmetic; 13 EXPLORING UNIT DIGITS Exploring unit digits, sequences; 14 FIVE DICE /FIVE CARDS TO A HUNDRED; 15 NETWORKS Coding and analysing a line pattern, generalizing, formula; 16 PALINDROMES Exploring numbers, generalizing, arithmetic; 17 PARTITIONS AND PRODUCTS Addition, multiplication, indices, formulae; 18 SCALE FACTORS Enlargements, ratio; 19 STORIES Here's the answer, what's the question? 20 TAKE THREE DICE Arithmetic, properties of numbers21 TAKE THREE NUMBERS A right good number puzzle; 22 TAKE A STRIP OF PAPER

From number to algebra; 23 DOMINO DELIGHT Number patterns, algebra and fractions; 24 FRACTION WALLS AS NUMBER LINES Fraction walls, fraction number lines, decimals, percentages; 25 FRACTIONAL FROGS Addition and subtraction of fractions, infinity; 26 TWO MORE FRACTION PROBLEMS Patterns in fractions, generalizing; 27 A COUPLE OF PERCENTAGE PROBLEMS Making sense of percent, compound interest; 28 ROOTING OUT SQUARE ROOTS Multiplication of decimals 29 CREATING A LOG10 TABLE Creating base 10 log tables using fractional indicesSECTION 2 Puzzles to NAG (Number, Algebra and Graphs) your students with; 30 FIBONACCI 1 Sequence generators, golden ratio, graphing data; 31 FIBONACCI 2 Properties of the Fibonacci sequence, algebra; 32 SQUARE NUMBERS A collection of ideas using square numbers; 33 FIVE NUMBERS IN A RING 1 Differencing, generalizing; 34 FIVE NUMBERS IN A RING 2 Summing products, summing quotients, coordinate pictures; 35 JOINING DOTS Exploring structures, generalizing; 36 SPROUTS A strategy game using nodes, arcs and regions
37 4-SQUARE MEETING POINT PROBLEM Number patterns, generalizing, writing formulae38 TURNING INSIDE-OUT 'People math', a bit of fun, generalizing; 39 X + Y = 10 Partitioning, algebra, graphing; 40 100 SQUARE 3 Algebrizing on a 100 square; 41 TAKE TWO NUMBERS Addition, number patterns, generalizing; 42 DIAGONAL DIVERSIONS 1 Practising Pythagoras and trigonometry in a problem-solving context; 43 CARD TRICKERY 3 Puzzling out a card trick, constructing a formula; 44 LONGEST PATH THROUGH A RECTANGLE Number pattern leading to a quadratic; 45 NUMBER ROUTE PROBLEMS Number problems and algebra
46 3 'MULTIPLIED' BY 2 IS 8 Number patterns, generalizing, writing a formula

| Sommario/riassunto | All Mike's ideas have been tried and tested at the chalkface. This second edition will be at least 20% bigger and will contain ideas which range from simple addition to using and applying trigonometry, from naming 2D shapes to exploring the intrigues of 3D solids. |

2.	Record Nr.	UNINA9910366620403321
	Autore	Krylatov Alexander
	Titolo	Optimization Models and Methods for Equilibrium Traffic Assignment / / by Alexander Krylatov, Victor Zakharov, Tero Tuovinen
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
	ISBN	3-030-34102-X
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (231 pages)
	Collana	Springer Tracts on Transportation and Traffic, , 2194-8127 ; ; 15
	Disciplina	388 388.314
	Soggetti	Transportation engineering Traffic engineering Mathematical optimization Game theory Transportation Technology and Traffic Engineering Optimization Game Theory
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Introduction -- Optimization traffic assignment models -- Optimization traffic assignment methods -- Optimization models and methods for network design -- Networking issues.
	Sommario/riassunto	This book is focused on the discussion of the traffic assignment problem, the mathematical and practical meaning of variables, functions and basic principles. This work gives information about new approaches, methods and algorithms based on original methodological technique, developed by authors in their publications for the past several years, as well as corresponding prospective implementations. The book may be of interest to a wide range of readers, such as civil engineering students, traffic engineers, developers of traffic assignment algorithms etc. The obtained results here are to be used in both practice and theory. This book is devoted to the traffic assignment problem, formulated in a form of nonlinear optimization program. The most efficient solution algorithms related to the problem are based on

its structural features and practical meaning rather than on standard nonlinear optimization techniques or approaches. The authors have carefully considered the meaning of the traffic assignment problem for efficient algorithms development. .