

1. Record Nr.	UNINA9910725077003321
Autore	Bini Elisabetta
Titolo	Acqua : risorsa e minaccia. La gestione delle risorse idriche e delle inondazioni in Europa (XIV-XIX secolo) // Elisabetta Bini
Pubbl/distr/stampa	[Place of publication not identified] : , : FedOA - Federico II University Press, , 2023
Descrizione fisica	1 online resource
Disciplina	551.489
Soggetti	Floods
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Ogni civiltà ha sviluppato saperi e tecniche per gestire e sfruttare l'acqua, elemento essenziale per la vita umana, ma anche per difendersi dalle minacce che possono derivare dalla convivenza con essa. In età preindustriale, la necessità di gestire un bene così prezioso ha condotto allo sviluppo di tecnologie, alla costruzione d'infrastrutture, alla creazione di magistrature apposite, ma ha anche alimentato conflitti tra soggetti che pretendevano un accesso privilegiato o esclusivo alle risorse idriche. Inoltre, i rischi derivanti dalla prossimità di corsi d'acqua o di bacini lacustri hanno spesso indotto le società a sviluppare tecniche e pratiche di prevenzione. Questo spettro di problemi è al centro dei saggi raccolti in questo volume, che studiano varie città medie e grandi dell'Europa centro-occidentale - dalla Valle del Reno alla Penisola iberica, da Parigi a Palermo - tra il XIV e il XIX secolo.

2. Record Nr.	UNINA9910878989603321
Autore	Ruffa Anthony A
Titolo	Innovative Integrals and Their Applications II // by Anthony A. Ruffa, Bourama Toni
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-62123-9
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (318 pages)
Collana	STEAM-H: Science, Technology, Engineering, Agriculture, Mathematics & Health, , 2520-1948
Altri autori (Persone)	ToniBourama
Disciplina	515.5
Soggetti	Functions, Special Integral equations Mathematical analysis Special Functions Integral Equations Integral Transforms and Operational Calculus Funcions especiales Equacions integrals Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Chapter 1 An Overview of the Methods -- Chapter 2 Warm-up Interchanging the Order of Integration -- Chapter 3 Permutation Symmetry -- Chapter 4 Identities Involving the Laplace Transform and the Fourier Transform -- Chapter 5 A Potpourri of Methods and Results -- Chapter 6 Applications in the Sciences Technology and Engineering -- Bibliography -- Index.
Sommario/riassunto	In its second installment, Innovative Integrals and Their Applications II explores multidimensional integral identities, unveiling powerful techniques for attacking otherwise intractable integrals, thus demanding ingenuity and novel approaches. This volume focuses on novel approaches for evaluating definite integrals, with the aid of tools such as Mathematica as a means of obtaining useful results. Building upon the previous methodologies, this volume introduces additional concepts such as interchanging the order of integration, permutation

symmetry, and the use of pairs of Laplace transforms and Fourier transforms, offering readers a comprehensive array of integral identities. The content further elucidates the techniques of permutation symmetry and extends the multivariate substitution approach to integrals with finite limits of integration. These insights culminate in a collection of integral identities involving gamma functions, incomplete beta functions, Bessel functions, polylogarithms, and the Meijer G-function. Additionally, readers will encounter applications of error functions, inverse error functions, hypergeometric functions, the Lambert W-function, elliptic integrals, Jacobi elliptic functions, and the Riemann zeta function, among many others, with a focus on their relevance in various scientific disciplines and cutting-edge technologies. Each chapter in this volume concludes with many interesting exercises for the reader to practice. A key tenet is that such approaches work best when applied to integrals having certain characteristics as a starting point. Most integrals, if used as a starting point, lead to no result at all, or lead to a known result. However, there is a special class of integrals (i.e., innovative integrals), which, if used as a starting point for such approaches, lead to new and useful results, and can also enable the reader to generate other new results that do not appear in the book. The intended readership includes science, technology, engineering, and mathematics (STEM) undergraduates and graduates, as well as STEM researchers and the community of engineers, scientists, and physicists; most of these potential readers have experienced the importance and/or the applications of integration from finding areas, volumes, lengths, and velocities to more advanced applications. The pedagogical approach of the exposition empowers students to comprehend and efficiently wield multidimensional integrals from their foundations, fostering a deeper understanding of advanced mathematical concepts. .
