

1. Record Nr.	UNINA9910457320303321
Autore	Dixon S. L (Sydney Lawrence)
Titolo	Fluid mechanics, thermodynamics of turbomachinery [[electronic resource] /] / [by] S. L. Dixon
Pubbl/distr/stampa	Oxford ; ; New York, : Pergamon Press, 1998
ISBN	1-280-96443-X 9786610964437 0-08-047062-9
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (413 p.)
Collana	Thermodynamics and fluid mechanics series
Disciplina	621.406 621.406 22
Soggetti	Turbomachines - Fluid dynamics Thermodynamics Electronic books.
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.
Nota di contenuto	Front Cover; Fluid Mechanics, Thermodynamics of Turbomachinery; Copyright Page; Contents; Preface to the Fifth Edition; Preface to the Fourth Edition; Preface to the Third Edition; Acknowledgements; List of Symbols; Chapter 1. Introduction: Dimensional Analysis: Similitude; Definition of a turbomachine; Units and dimensions; Dimensional analysis and performance laws; Incompressible fluid analysis; Performance characteristics; Variable geometry turbomachines; Specific speed; Cavitation; Compressible gas flow relations; Compressible fluid analysis The inherent unsteadiness of the flow within turbomachinesReferences; Problems; Chapter 2. Basic Thermodynamics, Fluid Mechanics: Definitions of Efficiency; Introduction; The equation of continuity; The first law of thermodynamics-internal energy; The momentum equation-Newton's second law of motion; The second law of thermodynamics-entropy; Definitions of efficiency; Small stage or polytropic efficiency; Nozzle efficiency; Diffusers; References; Problems; Chapter 3. Two-dimensional Cascades; Introduction; Cascade nomenclature; Analysis of cascade forces; Energy losses; Lift and drag

Circulation and lift; Efficiency of a compressor cascade; Performance of two-dimensional cascades; The cascade wind tunnel; Cascade test results; Compressor cascade performance; Turbine cascade performance; Compressor cascade correlations; Fan blade design (McKenzie); Turbine cascade correlation (Ainley and Mathieson); Comparison of the profile loss in a cascade and in a turbine stage; Optimum space-chord ratio of turbine blades (Zweifel); References; Problems; Chapter 4. Axial-flow Turbines: Two-dimensional Theory; Introduction; Velocity diagrams of the axial turbine stage; Thermodynamics of the axial turbine stage; Stage losses and efficiency; Soderberg's correlation; Types of axial turbine design; Stage reaction; Diffusion within blade rows; Choice of reaction and effect on efficiency; Design point efficiency of a turbine stage; Maximum total-to-static efficiency of a reversible turbine stage; Stresses in turbine rotor blades; Turbine flow characteristics; Flow characteristics of a multistage turbine; The Wells turbine; Pitch-controlled blades; References; Problems; Chapter 5. Axial-flow Compressors and Fans; Introduction; Two-dimensional analysis of the compressor stage; Velocity diagrams of the compressor stage; Thermodynamics of the compressor stage; Stage loss relationships and efficiency; Reaction ratio; Choice of reaction; Stage loading; Simplified off-design performance; Stage pressure rise; Pressure ratio of a multistage compressor; Estimation of compressor stage efficiency; Stall and surge phenomena in compressors; Control of flow instabilities; Axial-flow ducted fans; Blade element theory; Blade element efficiency; Lift coefficient of a fan aerofoil; References; Problems

Chapter 6. Three-dimensional Flows in Axial Turbomachines

Sommario/riassunto

The new edition will continue to be of use to engineers in industry and technological establishments, especially as brief reviews are included on many important aspects of Turbomachinery, giving pointers towards more advanced sources of information. For readers looking towards the wider reaches of the subject area, very useful additional reading is referenced in the bibliography. The subject of Turbomachinery is in continual review, and while the basics do not change, research can lead to refinements in popular methods, and new data can emerge. This book has applications for professional

2. Record Nr.	UNINA9910459630403321
Autore	Howard Victor B.
Titolo	Black liberation in Kentucky : emancipation and freedom, 1862-1884 / / Victor B. Howard
Pubbl/distr/stampa	Lexington, Kentucky : , : The University Press of Kentucky, , 2010 ©1983
ISBN	0-8131-8478-9 0-8131-3397-1 0-8131-5071-X
Edizione	[Paperback edition.]
Descrizione fisica	1 online resource (231 p.)
Disciplina	976.9/00496073
Soggetti	African Americans - Kentucky - History - 19th century Reconstruction (U.S. history, 1865-1877) - Kentucky Electronic books. Kentucky History Civil War, 1861-1865 Kentucky Race relations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title; Copyright; Contents; Preface; Introduction; 1 Kentucky Responds to War; 2 The Army and the Slave; 3 Emancipation; 4 Military Enrollment; 5 Slaves Go to War; 6 From Soldier to Freedman; 7 The Search for Work; 8 Families in Transition; 9 The Testimony Question; 10 Black Suffrage; 11 Equal Education?; Epilogue; Notes; Manuscript Sources and Government Documents; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; R; S; T; U; W
Sommario/riassunto	Kentucky occupied an unusual position with regard to slavery during the Civil War as well as after. Since the state never seceded, the emancipation proclamation did not free the majority of Kentucky's slaves; in fact, Kentucky and Delaware were the only two states where legal slavery still existed when the thirteenth amendment was adopted by Congress. Despite its unique position, no historian before has attempted to tell the experience of blacks in the Commonwealth during the Civil War and Reconstruction.Victor B. Howard's Black Liberation in Kentucky fills this void in the history of slavery

3. Record Nr.	UNINA9910711971803321
Autore	Miller Raymond E.
Titolo	Ground-water hydrology of the Chad Basin in Bornu and Dikwa Emirates, Northeastern Nigeria : with special emphasis on the flow life of the Artesian system / / by R. E. Miller [and three others]
Pubbl/distr/stampa	[Washington, D.C.] : , : United States Department of the Interior, Geological Survey, , 1968 Washington : , : United States Government Printing Office
Descrizione fisica	1 online resource (iv, 48 pages) : illustrations, maps
Collana	Contributions to the hydrology of Africa and the Mediterranean region Geological Survey water-supply paper ; ; 1757-I
Soggetti	Groundwater - Nigeria - Borno State Groundwater - Nigeria - Dikwa Emirate
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes 9 plates on HTML page. "Prepared in cooperation with the Geological Survey of Nigeria under the auspices of the United States Agency for International Development."
Nota di bibliografia	Includes bibliographical references.

4. Record Nr.	UNINA9910734874003321
Autore	Mihailescu Marius Iulian
Titolo	Pro Cryptography and Cryptanalysis with C++23 : Creating and Programming Advanced Algorithms / / by Marius Iulian Mihailescu, Stefania Loredana Nita
Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2023
ISBN	9781484294505 1484294505
Edizione	[2nd ed. 2023.]
Descrizione fisica	1 online resource (499 pages)
Disciplina	005.824
Soggetti	C++ (Computer program language) Cryptography Data encryption (Computer science) Programming languages (Electronic computers) Data protection C++ Cryptology Programming Language Data and Information Security
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I: Foundations -- 1: Introduction -- 2: Cryptography Fundamentals -- 3: Mathematical Background and Its Applicability -- 4: Large Integer Arithmetic -- 5: Floating Point Arithmetic -- 6: New Features in C++23 -- 7: Secure Coding Guidelines -- 8: Cryptography Libraries in C/C++23 -- Part II: Pro Cryptography -- 9: Elliptic Curve Cryptography -- 10: Lattice-based Cryptography -- 11: Searchable Encryption -- 12: Homomorphic Encryption -- 13: (Ring) Learning with Errors Cryptography -- 14: Chaos-based Cryptography -- 15: Big Data Cryptography16:Cloud Computing Cryptography -- Part III: Pro Cryptanalysis -- 17: Getting Started with Cryptanalysis -- 18: Cryptanalysis Attacks and Techniques -- 19: Linear and Differential Cryptanalysis -- 20: Integral Cryptanalysis -- 21: Brute Force and

Sommario/riassunto

Develop strong skills for writing cryptographic algorithms and security schemes/modules using C++23 and its new features. This book will teach you the right methods for writing advanced cryptographic algorithms, such as elliptic curve cryptography algorithms, lattice-based cryptography, searchable encryption, and homomorphic encryption. You'll also examine internal cryptographic mechanisms and discover common ways in which the algorithms can be implemented and used correctly in practice. The authors explain the mathematical basis of cryptographic algorithms in terms that a programmer can easily understand. They also show how "bad" cryptography can creep in during implementation and what "good" cryptography should look like by comparing advantages and disadvantages based on processing time, execution time, and reliability. You will: Discover what modern cryptographic algorithms and methods are used for Design and implement advanced cryptographic mechanisms See how C++23 and its new features are impact the implementation of cryptographic algorithms Practice the basics of public key cryptography, including ECDSA signatures and more See how most of the algorithms can be broken.
