

## Bibliothèque LMFA : Acquisitions par année

### 2017

[Wave motion](#) / J. Billingham, A. C. King

Cambridge University Press, 2001

A125

[Numerical Methods for Ordinary Differential Equations](#), 3rd Edition / J. C. Butcher

Wiley, 2016

B162

[The Lattice Boltzmann Method : Principles and Practice](#) / Krüger, T., Kusumaatmaja, H., Kuzmin, A.,

Shardt, O., Silva, G., Viggen, E.M.

Springer, 2017

B163

[Programmer en Fortran : Fortran 90 et ses évolutions](#) - Fortran 95, 2003 et 2008, (2e édition) /

Claude Delannoy

Eyrolles, 2015

G040

[Malscience : De la fraude dans les labos](#) / Nicolas Chevassus-au-Louis

Seuil, 2016

I08

[Buoyancy-Driven Flows](#) / Eric Chassignet, Claudia Cenedese, Jacques Verron

Cambridge University Press, 2012

U050

[Noise-Induced Phenomena in the Environmental Sciences](#) / Luca Ridolfi, Paolo D'Odorico,

Francesco Laio

Cambridge University Press, 2011

V020

[Numerical Sound Synthesis: Finite Difference Schemes and Simulation in Musical Acoustics](#) /

Stefan Bilbao

Wiley, 2009

X060

# 2016

[Magnétohydrodynamique : Des plasmas de laboratoire à l'astrophysique - Cours et exercices corrigés](#) / Sébastien Galtier

Vuibert, 2013

T115

[Acoustics in Moving Inhomogeneous Media](#) / Vladimir E. Ostashev, D. Keith Wilson

Second Edition

CRC Press, 2015

X059

[Shock Wave-Boundary-Layer Interactions](#) / Holger Babinsky, John K. Harvey,

Cambridge University Press, 2014

N052

[The turbulent ocean](#) / S.A. Thorpe

Cambridge University Press, 2005

U049

[Handbook of Fluid Dynamics, Second Edition](#) / Richard W. Johnson

CRC Press, 2016

H017

(pdf des chapitres sur demande)

[Progress in turbulence VI : Proceedings of the iTi Conference on Turbulence 2014](#) / Editors:

Joachim Peinke, Gerrit Kampers, Martin Oberlack, Marta Wacławczyk, Alessandro Talamelli

Springer, 2016

T116

(don Capuano)

[Aérosols atmosphériques : Propriétés et impacts climatiques](#) / Boucher, Olivier

Springer, 2012

U089

[Fortran 95/2003 for Scientists & Engineers](#) / Chapman, Stephen

Third edition

Mc Graw Hill, 2007

G039

[Dictionnaire Le Petit Robert 2016](#) - Édition BIMÉDIA ( Collectif)

I07

[Physics and Mathematical Tools : methods and examples](#) / Angel Alastuey, Maxime Clusel, Marc Magro, Pierre Pujol  
EDP Sciences, World Scientific, 2016  
A124  
(Don E. Lévêque)

[Applications of Turbulent and Multi-Phase Combustion](#) / Kenneth Kuan-yun Kuo, Ragini Acharya  
Wiley, 2012  
(Achat perso M. Gorokhovski)

# 2015

[Basic Concepts for Simple and Complex Liquids](#) / Jean-Louis Barrat, Jean-Pierre Hansen

Cambridge University Press, 2003

S139

[Métrie laser pour la mécanique des fluides : Granulométrie et techniques spectroscopiques](#) /

Alain Boutier

Hermes, Lavoisier, 2012

Z057

[Vélocimétrie laser pour la mécanique des fluides](#) / Alain Boutier

Hermes, Lavoisier, 2012

Z058

[Stochastic Equations: Theory and Applications in Acoustics, Hydrodynamics,](#)

[Magnetohydrodynamics, and Radiophysics, Volume 1](#) : Basic Concepts, Exact Results, and

Asymptotic Approximations / Valery I. Klyatskin

Springer, 2015

A122

[Stochastic Equations: Theory and Applications in Acoustics, Hydrodynamics,](#)

[Magnetohydrodynamics, and Radiophysics, Volume 2](#) : Coherent Phenomena in Stochastic

Dynamic Systems / Valery I. Klyatskin

Springer, 2015

A123

[A History and Philosophy of Fluid Mechanics](#) / G. A. Tokaty

Dover, 1994

S138

[The Lattice Boltzmann Equation for Fluid Dynamics and Beyond](#) / Sauro Succi

Clarendon Press, 2001

B160

[Lattice Boltzmann Method and Its Applications in Engineering](#) / Zhaoli Guo, Chang Shu

World Scientific, 2013

B161

[Non equilibrium statistical mechanics and turbulence](#) / Cardy, Falkovich, Gwiazda

Cambridge University Press, 2008

T113

[Sediment and Contaminant Transport in Surface Waters](#) / Wilbert Lick

CRC Press, 1998

V019

[Internal Flow : Concepts and Applications](#) / E. M. Greitzer, C. S. Tan, M. B. Graf

Cambridge University Press, 2004

S101

(remplacement exemplaire perdu)

[ITER Physics](#) / C Wendell Horton, Sadruddin Benkadda

World Scientific, 2015

T114

(don E. Lévêque)

[Flinovia - Flow Induced Noise and Vibration Issues and Aspects : A Focus on Measurement, Modeling, Simulation and Reproduction of the Flow Excitation and Flow Induced Response](#) /

Ciappi, E., De Rosa, S., Franco, F., Guyader, J.-L., Hambric, S.A. (Eds.)

Springer, 2015

X058

(don D. Juvé)

[Mathématiques BTS industriels - Groupements B et C, Cours, exercices corrigés et bonus web](#) /

Laurent Lubrano, Stéphane Le Méteil, Patrick Leménicier, Véronique Chevrier

Hors collection, Dunod, 2011

(Achat perso A. Azouzi)

[La conception mécanique : Méthodologie et optimisation](#) / Philippe Boisseau

Technique et Ingénierie, Dunod - Usine Nouvelle, 2011

(Achat perso A. Azouzi)

[RECENT DEVELOPMENTS IN NONLINEAR ACOUSTICS: 20th International Symposium on Nonlinear Acoustics including the 2nd International Sonic Boom Forum](#) / Editors: Philippe Blanc-Benon ,

Victor W. Sparrow and Didier Dragna

Conference date: 29 June–3 July 2015

Location: Écully, France

(don des auteurs)

[Turbulence](#) / Bailly, Christophe, Comte-Bellot, Geneviève

Springer, 2015

T112 (3 exemplaires)

[Introduction to Programming with C++, 3e ed](#) / Y Daniel Liang  
Pearson, 2013  
G038

[Lattice Boltzmann Modeling : an introduction for geoscientists and engineers](#) / M.C. Sukop,  
D.T. Thorne  
Springer, 2006  
B 159

[Loose Boundary Hydraulics](#) / Arved J. Raudkivi  
CRC Press, 1998  
U047

[Flow in porous rocks](#) / A.W. Woods  
Cambridge, 2014  
U046

[New techniques in digital holography](#) / Pascal Picart (ed)  
Wiley, 2015  
Z056

## 2014

[McDonald's Blood Flow in Arteries, Sixth Edition: Theoretical, Experimental and Clinical Principles](#) /  
Wilmer Nichols, Michael O'Rourke, Charalambos Vlachopoulos  
CRC Press 2011  
Bureau B. Pier

[Analyse phénoménologique des écoulements : Comment traiter un problème de mécanique des fluides avant de résoudre les équations](#) / De Jean Sylvestre Darrozès et Arnault Monavon  
PPUR 2014  
S137

[Acoustic Bubble](#) / T. Leighton  
Academic Press, 1997  
X057

[Introduction to aircraft aeroelasticity and loads](#) / Jan R. Wright and Jonathan E. Cooper  
Wiley 2007  
R051

[Incompressible Flow](#) (4th edition) / Ronald L. Panton  
Wiley 2013  
S136

[Unsteady Computational Fluid Dynamics in Aeronautics](#) / P.G. Tucker  
Springer 2014  
B158

[Hydrodynamics and Sound](#) / M. S. Howe  
Cambridge University Press, 2012  
X056

[Three-dimensional attached viscous flow](#) / Hirschel, Cousteix, Kordulla  
Springer, 2014  
S135

[Nouveaux métiers de l'infodoc , Guide](#) / réalisé par Archimag  
Serda, 2013  
(Archimag guide pratique n°48)  
Bureau P.Eyraud

[Guide du technicien en électrotechnique](#) – Livre de l'élève / Yves Aubert, Roger Bourgeron, Claudio Cimelli, André Domenach, Jean-Claude Mauclerc  
Hachette, 2007  
I06

[Inviscid Incompressible Flow](#) / Jeffrey S. Marshall  
Wiley, 2001  
S115

[Shock wave science and technology reference library, vol. 1](#) / Rini Dongen (ed.)  
Springer, 2007  
J049

[Turbulence](#) / Marcel Lesieur  
Nouvelle Edition  
EDP sciences, 2013  
T111

[Boundary Integral and Singularity Methods for Linearized Viscous Flow](#) / C. Pozrikidis  
Cambridge University Press, 1992  
A121

[Introduction to Theoretical and Computational Fluid Dynamics](#) / C. Pozrikidis  
Oxford University Press, 2011  
B157

[Les dérives de l'évaluation de la recherche - Du bon usage de la bibliométrie](#) / Yves Gingras  
Raisons d'Agir, 2014  
I05

[Biomechanics : Circulation](#) / Fung, Y.C.  
2nd ed.  
Springer, 1997  
E010

[Ocean Dynamics](#) / Olbers, Dirk, Willebrand, Jürgen, Eden, Carsten  
Springer, 2012  
U044

[Introduction à la mécanique théorique des fluides](#) / Pierre Antoine Bois  
Ellipses, 2000  
S134

[Design of Highly Loaded Axial Flow Fans and Compressors](#) / Arthur J. Wennerstrom  
Concepts NREC, 2000  
N051

[Topologie des écoulements tridimensionnels décollés](#) / Jean Délery  
Lavoisier/Hermes, 2013  
R050

[Holographie Numérique](#) / J.-C. Li, P. Picart  
Lavoisier / Hermes 2012  
Z055

# 2013

[Bubble Dynamics and Shock Waves](#) / Delale, Can F. (Ed.)

Series: Shock Wave Science and Technology Reference Library, Vol. 8

Springer, 2013

J048

[Turbulence in rotating, stratified and electrically conducting fluids](#) / P.A. Davidson

Cambridge University press, 2013

T109

[Reaction-transport systems : mesoscopic foundations, fronts and spatial instabilities](#) / Mendez,

Vicenc, Fedotov, Sergei, Horstemke, Werner

Springer, 2010

Achat perso M. Gorokhovski

[LDA Application methods : laser doppler anemometry for fluid dynamics](#) / Zhang, Z.

Springer, 2010

Z054

[A Kinetic view of statistical physics](#) / Krapivsky, P. ; Redner, S. ; Ben-Naim, E.

Cambridge University Press, 2010

W043

[Computational Fluid Mechanics and Heat Transfer](#) / Pletcher, R. ; Tannhill, J. ; Anderson, D.

Taylor and Francis, 2012

B156

[Airborne measurements for environmental research](#) / Wandisch, M. ; Brenguier, J.-L.

Wiley, 2013

U043

[L'air et l'eau – Alizés, cyclones, gulf stream, tsunamis et tant d'autres curiosités naturelles](#) /

Moreau, R.

EDP Sciences, 2013

U044

[Atmospheric Boundary Layer Flows : their strucure and measurement](#) / Kaimal, J.-C. ; Finnigan,

J.-J.

Oxford University Press, 1994

U042

[Rhéophysique - Ou comment coule la matière](#) / Oswald, P.

Belin, 2005

W042

[Transport phenomena in biological systems](#) /George Truskey, fan Yuan, David Katz

Pearson, 2009

E009

[Applied mathematical models in human physiology](#) / JT Ottesen, MS Olufsen, JK Larsen

SIAM, 2004

E008

[Waves and structures in nonlinear nondispersive media](#) : general theory and applications to nonlinear acoustics / S. N.Gurbatov, O. V. Rudenko, A. I. Sajchev

Springer, 2011

X055

[Météorologie : 100 expériences pour comprendre les phénomènes météo](#) / Yves Corboz

Editions Belin, 2008

U041

[The Navier-Stokes Equations : A Classification of Flows and Exact Solutions](#) / P. G. Drazin, N. Riley

Cambridge University Press, 2006

A120

[VTK Textbook + VTK User's guide](#)

Kitware, 2006

G036 + G037

[A modern course in aeroelasticity](#) / Clark, R., Cox, D., Curtiss, H.C.J., Edwards, J.W., ... (Ed.)

Kluwer, 2004

R049

[Internal gravity waves](#) / Bruce R. Sutherland  
Cambridge University Press, 2010  
S133

[Schwarz-christophel mapping](#) / T.A. Driscoll, L.N. Trefethen  
Cambridge University Press, 2002  
B155

# 2012

[Electromagnetic Scintillation. Volume 1](#) / Albert D. Wheelon  
Cambridge University Press, 2005  
X053

[Electromagnetic Scintillation. Volume 2](#) / Albert D. Wheelon  
Cambridge University Press, 2006  
X054

[The theory of scintillation with applications in remote sensing](#) / Charles Rino  
Wiley, 2011  
X052

[Suspension Acoustics : an introduction to the physics of suspensions](#) / Samuel Temkin  
Cambridge University Press, 2011  
J045

[Write away : rédiger en anglais scientifique et technique](#) / Joline Boulon, Hélène Marchand  
Ellipses, 2012  
I04

[Modern Theory of Critical Phenomena](#) / Shang-Keng Ma  
Westview, 2000  
A119

[Introduction to high performance computing for scientists and engineers](#) / Georg Hager, Gerhard Wellein  
CRC Press, 2010  
G034

[Les milieux granulaires. Entre fluide et solide](#) / B. Andreotti, Y. Forterre & O. Pouliquen  
EDP Sciences, CNRS Edition, 2011  
W040

[Direct numerical simulations of gas-liquid multiphase flows](#) / Gretar Tryggvason  
Cambridge University Press, 2011  
J046

[Theoretical and numerical combustion](#) / Poinsot and Veynante

3rd edition

CERFACS, 2012

L044

[Les écoulements de fluides newtoniens](#) / Jean Noel Gence

Ellipses, 2007

S108c

[Vers un nouveau modèle urbain : du quartier à la ville durable](#) / Comité 21

Victoires Editions, 2011

V018

[Automated solution of differential equations by the finite element method](#) / ed by Anders Logg

Springer, 2012

B154

[Labview : programmation et applications](#) / F. Cottet, M. Pinard

Dunod L'Usine Nouvelle, 2009

G035

[Fluid Mechanics and the SPH Method : theory and application](#) / Damien Violeau

Oxford University Press, 2012

B153

[Boundary-Layer Theory](#) / Schlichting, Herrmann

Springer (8th edition), 2000

T107

[Introduction to BioMEMS](#) / Albert Folch

CRC Press, 2012

W041

[Waves and Mean Flows](#) / Oliver Bühler

Cambridge University Press, 2009

S131

[Les Français du ciel : Dictionnaire historique](#) / Directeur : Lucien ROBINEAU

Cherche-Midi, 2005

N050

[Aerodynamics of Low Reynolds Number Flyers](#) / Wei Shyy

Cambridge University Press, 2008

R048

[Geophysical Fluid Dynamics](#) / Joseph Pedlosky

Springer (2nd edition), 1987

S132

[Advanced PIC microcontroller projects in C](#) / Dogan Ibrahim

Newnes/Elsevier, 2008

Service Electronique

**Dons Laboratoire Hubert Curien Saint Etienne**

[Continuum mechanics and theory of materials](#) / P. Haupt

Springer, 2000

W039

[Fluid Flow : a first course in fluid mechanics](#) / RH. Sabersky, AJ. Acosta, E.G. Hauptmann

Third Edition

Macmillan Publishing Company, 1989

S129

[Applied turbulence modelling in marine waters](#) / H. Burchard

Springer, 2002

T106

[Numerical methods for wave equations in geophysical fluid dynamics](#) / D.R. Durran

Springer, 1999

B152

[Thermofluids](#) / K. Sherwin, M. Horsley

Chapman, 1996

M043

[Statistical physics of fluids : basic concepts and applications](#) / V.I. Kalikmanov

Springer, 2001

B128

[Hydrodynamics and transport for water quality modeling](#) / JL Martin, SC. McCutcheon

Lewis, 1999

S130

[Particle Image Velocimetry : progress towards industrial application](#) / M. Stanislas, J. Kompenhans,  
J. Westerweel (eds)  
Kluwer, 2000  
Z042

**Don J.L. Marié**  
[Liquid-vapor phase-change phenomena](#) / Van P. Carey  
Hemisphere Publishing Corporation, 1992  
K063

**Don M. Lance**  
[Gas transfer at water surfaces 2010](#) / edited by S. Komori, W. McGillis and R. Kurose  
Contributions from the International Symposium on Gas Transfer at Water Surfaces held at Kyoto  
University from May 17-21, 2010, Kyoto University, 2011  
J047

# 2011

[Advanced mathematics for applications](#) / Andrea Prosperetti  
Cambridge University Press, 2011  
A116

[Computational methods for multiphase flow](#) / Andre Prosperetti  
Cambridge University Press, 2009  
J042

[Hydrodynamic instabilities](#) / François Charnu  
Cambridge University Press, 2011  
S127

[Computational Fluid Dynamics](#) / Ed by Frederic Magoules  
CRC Press, 2011  
B150 (2ex)

[Plasma Physics and Fusion Energy](#) / JP. Freidberg  
Cambridge University Press, 2007  
T101

[Modern Plasma Physics : Volume 1, Physical Kinetics of Turbulent Plasmas](#) / Patrick H. Diamond,  
Sanae-I. Itoh, Kimitaka Itoh  
Cambridge University Press, 2010  
T100

[English for writing research papers](#) / Adrian Wallwork  
Springer 2011  
I03

[LaTeX, l'essentiel](#) + DVD Rom / Denis Bitouzé, Jean-Côme Charpentier  
Pearson, 2010  
I02

[Atmospheric chemistry and physics](#) / John H. Seinfeld, Spyros N. Pandis  
Wiley, 2006  
U040

[Bubbles, Drops, and Particles in Non-Newtonian Fluids](#), Second Edition / R.P.Chhabra

CRC, 2006

J042

[Arbitrary Lagrangian Eulerian and Fluid-Structure Interaction](#) / M'hamed Souli David J. Benson

Wiley, 2010

B147

[Cavitation in Non-Newtonian Fluids with biomedical and bioengineering applications](#) / Emil Brujan

Springer, 2011

E007

[Direct Numerical Simulations of Gas–Liquid Multiphase Flows](#) / Grétar Tryggvason, Ruben

Scardovelli, Stéphane Zaleski

Cambridge University Press, 2011

J041

[Vortex Methods](#) / Kyoji Kamemoto, Michihisa Tsatahara

World Scientific / 2000

S126

**Dons :**

[Quality and reliability of large-eddy simulations II](#) / ed : Salvetti M.V., Geurts B., Meyers J., Sagaut

P.

Springer 2011 - ERCOFTAC series 16

B149

[Progress in wall turbulence : understanding and modeling](#) / ed : Stanislas M., Jimenez J., Marusoc I.

Springer 2011 - ERCOFTAC series 14

B148

# 2010

[Regards sur la terre 2010. L'annuel du développement durable](#) / Pierre Jacquet, Rajendra K.

Pachauri, Laurence Tubiana

Presses de Sciences Po, 2010

V017

[Introduction to Micrometeorology](#) (Second Edition) / Paul Arya, James Holton

Academic Press, 2001

U039

[Non-Equilibrium Thermodynamics for Engineers](#) / S Kjelstrup, D Bedeaux, E Johannessen

World Scientific, 2010

M042

[A Practical Guide to Boundary Element Methods with the Software Library BEMLIB](#) / C. Pozrikidis

CRC Press, 2002

B142

[The Fluid Mechanics of Large Blood Vessels](#) / T. J. Pedley

Cambridge university Press, 2008

E006

[Turbulent Flows](#) / Stephen Pope

Cambridge, 2000

T062

[Random Data: Analysis and Measurement Procedures](#) / Julius S. Bendat, Allan G. Piersol

Wiley, 2010

F032

[Engineering Applications of Correlation and Spectral Analysis](#) / Julius S. Bendat, Allan G. Piersol

Wiley, 1993

F016b

[Noise Redusion Analysis](#) / Uno Ingard  
Jones & Bartlett Publishers, 2009  
X050

[Cavitation and Bubble Dynamics](#) / Christopher E. Brennen  
Oxford University Press, 1995  
J038

[Parallel Computational Fluid Fluid Dynamics 2008](#) / ed. by Damien Tromeur-Dervout....  
Springer, 2010  
B144

[High Performance Computing In Science and Engineering - Garching Munich 2009](#)  
ed. by Siegfried Wagner....  
Springer, 2010  
B143

[Sir James Lighthill and modern fluid mechanics](#) / Debnath, Lokenath (1935-....)  
Imperial College Press : Distributed by World Scientific / cop. 2008  
S125

[Lagrangian fluid dynamics](#)  
Bennett, Andrew Fawcett (1945-....) / Cambridge University Press / cop. 2006  
S126

[Geological fluid dynamics : sub-surface flow and reactions](#)  
Phillips, Owen M. (1930-) / Cambridge University Press / 2009  
S124

[Pattern formation : an introduction to methods](#)  
Hoyle, Rebecca B. / Cambridge University Press / cop. 2006  
A113

[Theory of linear poroelasticity with applications to geomechanics and hydrogeology](#)  
Wang, Herbert (1946-....) / Princeton University Press / cop. 2000  
S123

[Contrôle des décollements : du développement de actionneurs à l'amélioration des performances](#)  
- GDR (2502 ; 2009 ; Toulouse, France) / Cépaduès / 2009  
R047

[An informal conceptual introduction to turbulence](#)  
Tsinober, Arkady / 2e éd. / Springer / c2009  
T098

[Numerical computation of internal and external flows](#) : fundamentals of computational fluid dynamics / Charles Hirsch. - 2nd edition. - Amsterdam ; Boston ; London : Butterworth-Heinemann : Elsevier, cop. 2007  
B140

[Linux pour les nuls](#) [Texte imprimé] / Dee-Ann LeBlanc. - 8e éd. - Paris : First interactive, impr. 2009.  
G034

[Instabilités hydrodynamiques](#) [Texte imprimé] / François Charru. - Paris : CNRS éd. ; Les Ulis : EDP Sciences, DL 2007  
S121

[Homogeneous turbulence dynamics](#) [Texte imprimé] / Pierre Sagaut,... Claude Cambon,.... - Cambridge ; New York : Cambridge University Press, 2008  
*2ème exemplaire*  
T087b

[Introduction to finite and spectral element methods using MATLAB®](#) [Texte imprimé] / C. Pozrikidis. - Boca Raton : Chapman & Hall/CRC, 2005  
B035

[Computational fluid dynamics 2008](#) [Texte imprimé] / Haecheon Choi, Hyoung Gwon Choi, Jung Yul Yoo, eds. - Berlin : Springer, c2009  
*Don d'un des auteurs*  
S122