

# References

## On wind energy:

Wind Turbines – Part 1: Design Requirements, IEC 61400–1, 2005

Manwell J.F., McGowan J.G., and Rogers A.L., *Wind Energy Explained: Theory, Design and Application*, John Wiley & Sons, New York, NY, 2<sup>nd</sup> Edition, 2009

Burton T., Sharpe D., Jenkins N., Bossanyi E., *Wind Energy Handbook*, John Wiley & Sons, New York, 2001

Eggleston M. D., Stoddard F.S., *Wind Turbine Engineering Design*, Van Nostrand Reinhold, 1987

## On rotor aeroelasticity and aerodynamics:

Johnson W., *Helicopter Theory*, Dover Publications, New York, NY, USA, 1994

Leishman J.G., *Principles of Helicopter Aerodynamics*, Cambridge University Press, Cambridge, 2006

Peters D.A., and He C.J., Finite State Induced Flow Models. Part II: Three-Dimensional Rotor Disk, *Journal of Aircraft*, 32(2):323–333, 1995

Leishman J.G., Beddoes T.S., A Semi-Empirical Model for Dynamic Stall, *Journal of the American Helicopter Society*, 34(3):3–17, 1989

## On wind turbine control:

Burton T., Sharpe D., Jenkins N., Bossanyi E., *Wind Energy Handbook*, John Wiley & Sons, New York, 2001

Bossanyi E., Individual Blade Pitch Control for Load Reduction, *Wind Energy*, 6:1919–1928, 2003

Bossanyi E., The Design of Closed Loop Controllers for Wind Turbines, *Wind Energy*, 3(3):149–163, 2000

Bianchi F.D., De Battista H., Mantz R.J., *Wind Turbine Control Systems: Principles, Modeling and Gain Scheduling Design*, Springer-Verlag, London, 2007



# References

## On multibody dynamics:

C.L. Bottasso, Computational Dynamics, *Encyclopedia of Aerospace Engineering*, R. Blockley, W. Shyy, Eds., ISBN 978-0-470-75440-5, John Wiley & Sons, Ltd, 2010.

Geradin M., and Cardona A., *Flexible Multibody Dynamics, a Finite Element Approach*, John Wiley & Sons, New York, NY, 2000

Shabana A.A., Flexible Multibody Dynamics: Review of Past and Recent Developments, *Multibody System Dynamics*, 1:189-222, 1997

Bauchau O.A., Bottasso C.L., and Nikishkov Y.G., Modeling Rotorcraft Dynamics with Finite Element Multibody Procedures, *Mathematics and Computer Modeling*, 33:1113-37, 2001

Bauchau O.A., Bottasso C.L., and Trainelli L., Robust Integration Schemes for Flexible Multibody Systems, *Computer Methods in Applied Mechanics and Engineering*, 192:395-420, 2003

Chung, J., and Hulbert, G.M., A Time Integration Algorithm for Structural Dynamics with Improved Numerical Dissipation: The Generalized- $\alpha$  Method, *Journal of Applied Mechanics*, 122:254-266, 1995

## On contact/impact:

Pfeiffer F., and Glocker C., *Multibody Dynamics with Unilateral Contacts*, John Wiley & Sons, Inc., New York, NY, 1996

Hunt K.H., and Crossley F.R.E., Coefficient of Restitution Interpreted as Damping in Vibroimpact, *Journal of Applied Mechanics*, 112:440-445, 1975

Farin G.E., *Curves and Surfaces for Computer Aided Geometric Design*, Academic Press, Inc., Boston, MA, 1992

Piegl L., and Tiller W., *The Nurbs Book*, Springer-Verlag, Berlin, New Jersey, 1997



# References

## On stability analysis and system identification:

R.V. Jategaonkar, *Flight Vehicle System Identification: a Time Domain Methodology*, AIAA, Progress in Astronautics and Aeronautics, Vol. 216, Reston, VA, USA, 2006

LTI system identification:

Ljung, L., *System Identification – Theory for the User*, Prentice Hall, 1999

LTP stability analysis and much more:

G. Floquet, “Sur les équations différentielles linéaires à coefficients périodiques,” (in French), *Annales scientifiques de l'É.N.S.*, 2e série, tome 12 pp. 47–88, 1883

Bittanti, S., Colaneri, P., *Periodic Systems. Filtering and Control*, Springer-Verlag, London, 2009

Peters, D.A., Lieb, S.M., “Interpretation of Floquet Eigenvalues and Eigenvectors for Periodic Systems,” *Journal of The American Helicopter Society*, to appear

PARX identification:

Bertogalli, V., Bittanti, S., Lovera, M., “Simulation and identification of helicopter rotor dynamics using a general-purpose multibody code,” *Journal of The Franklin Institute*, 366:783–797, 1999

LTP continuous to discrete conversion:

Colaneri, P., Celi, R., Bittanti, S., “Constant-Coefficient Representations of Periodic-Coefficient Discrete Linear Systems,” Proceedings of the AHS 4th Decennium Specialist Conference on Aeromechanics, San Francisco, CA, January 2004.



# References

## On stability analysis and system identification (continued):

LTP state space realization:

S. Bittanti, G. De Nicolao, "Spectral factorization of linear periodic systems with application to the optimal prediction of periodic ARMA models," *Automatica*, 29:517–522, 1993

Tóth, R., Felici, F., Heuberger, P.S.C., Van den Hof, P.M.J., "Discrete time LPV I/O and State Space Representations, Differences of Behavior and Pitfalls of Interpolation," Proceedings of The European Control Conference ECC–2007. Kos, Grecia. 2–5 Luglio 2007

Invariant reformulation of LTP system

Bittanti, S., Colaneri, P., "Invariant Representations of Discrete–Time Periodic Systems," *Automatica*, 36:1777–1793, 2000

## On scaling laws:

Barenblatt G.I., *Scaling, Self–similarity, and Intermediate Asymptotics*, Cambridge University Press, 1996

P.P. Friedmann, Aeroelastic Scaling for Rotary–Wing Aircraft with Applications, *Journal of Fluids and Structures*, 19:635–650, 2004

