References

- Batchelor, G.K. (1967): "An introduction to fluid dynamics." C.U.P., 615 pages, ISBN 0-521-09817-3.
- Bell, M.J. (1984): "The least squares method of Fourier analysing two dimensional velocity data produced by the Video Velocity Acquisition System." Met. Office internal report (21), IR84/6.
- Bell,M.J. and Jackson,W.D.N. (1985): "Further analysis of methods for fitting fields to two dimensional velocity data." Met. Office internal report (21), IR85/1.
- Bless,S.J. (1965): "The effect of a radial barrier on thermally driven motions in a rotating fluid annulus." B.Sc. thesis, Massachusets Institute of Technology, U.S.A.
- Bowden, M. (1961): "An experimental investigation of heat transfer in rotating fluids." Ph.D. thesis, University of Durham, England.
- Bowden, M. and Eden, H.F. (1965): "Thermal convection in a rotating fluid annulus: temperature, heat flow and field flow observations in the upper symmetric regime." J. Atmos. Sci., 22, 2, 185-195.
- Bowden, M. and Eden, H.F. (1968): "Effect of a radial barrier on the convective flow in a rotating fluid annulus." J. Geophys. Res. 73, 6887-6896.
- Boyer, D.L. (1970): "Rotating flow over a step." Dept. of Civ. Eng., University of Delaware, Newark, Delaware 19711, 21 pages.
- (1971): "Rotating flow over long shallow ridges." Geophys. Fluid Dynamics, 2, 165-184.
- Condie,S.A. and Griffiths,R.W. (1989): "Convection in a rotating cavity: modelling ocean circulation." J. Fluid Mech., 207, 453-474.
- Davey, M.K. (1978): "Recycling flow over bottom topography in a rotating annulus." J.Fluid Mech., 87, 3, 497-520.
- (1980): "A quasi-linear theory for rotating flow over topography. Part 1. Steady β-plane channel." J.Fluid Mech., 99, 2, 267-292.
- (1981): "A quasi-linear theory for rotating flow over topography. Part 2.
 Beta-plane annulus." J.Fluid Mech., 103, 297-320.

- Davies, T.V. (1956): "The forced flow due to heating of a rotating liquid." Phil. Trans. Roy. Soc., London, (A), 958, 249, 27-64.
- Douglas, H.A., Hide, R. and Mason, P.J. (1972): "An investigation of the structure of baroclinic waves using three-level streak photography." Quart. J.R. Met. Soc. 98, 247-263.
- Eady, E.T. (1949): "Long waves and cyclone waves." Tellus, 1, 3, 33-52.
- Fowlis, W.W. (1964): "An experimental study of the transitions between the flow regimes of thermal convection in a rotating annulus of liquid." Ph.D. thesis, Massachusets Institute of Technology, U.S.A.
- Fowlis, W.W. and Hide, R. (1965): "Thermal convection in a rotating annulus of liquid: effect of viscosity on the transition between axisymmetric and non-axisymmetric flow regimes." J. Atmos. Sci. 22, 541-558.
- Fultz, D. (1951): "Experimental analogies to atmospheric motions." Compendium of Meteorology, Ed. T.F.Malone, Am. Met. Soc., 1235-1248.
- Fultz, D., Long, R.R., Owens, G.V., Bohan, W., Kaylor, R., and Weil, J. (1959): "Studies of thermal convection in a rotating cylinder with some implications for large-scale atmospheric motions." Met. Monographs, Vol. 4, 21, 103 pages, Am. Met. Soc.
- Fultz, D. and Spence, T. (1967): "Preliminary experiments on baroclinic westerly flow over a north-south ridge." Proc. Symp. on mountain met., Atmos. Sci. paper No. 122, 157-191, Colo. State University.
- Greenspan, H.P. (1968): "The theory of rotating fluids." C.U.P..
- Hide,R. (1953)(a): "Some experiments on thermal convection in a rotating fluid." Ph.D. thesis, University of Cambridge.
- (1953)(b): "Some experiments on thermal convection in a rotating fluid."
 Q.J. Roy. Met. Soc. LXXIX, 339, 161.
- (1958): "An experimental study of thermal convection in a rotating liquid." Phil. Trans. Roy. Soc., London, (A), 250, 442-478.
- (1967) (a): "On the vertical stability of a rotating fluid, subject to a horizontal temperature gradient." J. Atmos. Sci., 24, 1, 6-9.
- (1967) (b): "Theory of axisymmetric thermal convection in a rotating fluid annulus." The Phys. of Fluids, 10, 1, 56-68.

- (1968): "On source sink flows in a rotating fluid." J.Fluid Mech. 32, 4, 737-764.
- (1969): "Some laboratory experiments on free thermal convection in a rotating fluid subject to a horizontal temperature gradient and their relation to the theory of the global atmospheric circulation." The global circulation of the atmosphere, Ed. G.A.Corby, London; Roy. Met. Soc.
- (1977): "Experiments with rotating fluids." Quart. J.R. Met. Soc. 103, 1-28.
- (1985): "Thermal convection in a rotating fluid subject to a horizontal temperature gradient." from Turbulence and predictability in geophysical fluid dynamics, Soc. Italiana di Fisica, Bologna, Italy, 159-171.
- (1986): "Heat transfer by thermal convection in a rotating fluid subject to a horizontal temperature gradient." Large scale transport processes in oceans and atmospheres, Eds. J.Willebrand and D.L.T.Anderson, D.Reidel publishing Co., 325-336.
- (1988): "Studies of geostrophic turbulence, chaos and other non-linear phenomena in rotating fluids: the role of combined laboratory and numerical experiments." Met. Mag., 117, 33-34.
- (1989): "Superhelicity, helicity and potential vorticity." Geophys. Astrophys. Fluid Dynamics, 48, 69-79.
- Hide, R. and Mason, P.J. (1975): "Sloping convection in a rotating fluid." Adv. in Phys. 24, 1, 47-100.
- Hide, R., Mason, P.J. and Plumb, R.A. (1977): "Thermal convection in a rotating fluid subject to a horizontal temperature gradient: spatial and temporal characteristics of fully developed baroclinic waves." J. Atmos. Sci., 34, 6, 930-950.
- Hignett,P., White,A.A., Carter,R.D., Jackson,W.N.D., and Small,R.M. (1985): "A comparison of laboratory measurements and numerical simulations of baroclinic wave flows in a rotating cylindrical annulus." Quart. J.R. Met. Soc. 111, 131-154.
- Holton, J.R. (1979): "An introduction to dynamic meteorology." 2nd edition, Academic Press, ISBN 0-12-354 360-6.
- Jackson, W.D.N. and Hignett, P. (1984): "A system for the real-time measurement of two-dimensional velocity fields." Met. Office internal report (21), IR84/1.

- James, I.N., Jonas, P.R. and Farnell, L. (1981): "A combined laboratory and numerical study of fully developed steady baroclinic waves in a cylindrical annulus." Quart. J.R. Met. Soc. 107, 51-78.
- Jonas, P.R. and Kent, P.M. (1979): "Two-dimensional velocity measurements by automatic analysis of trace particle motion." J. Phys. E: Sci. Instrum. 12, 604-609.
- Kester, J.E. (1966): "Thermal convection in a rotating annulus of liquid: nature of the transition from an unobstructed annulus to one with a total radial wall." B.Sc. thesis, Massachusets Institute of Technology, U.S.A.
- Leach, H. (1975): "Thermal convection in a rotating fluid: effects due to irregular boundaries." Ph.D. thesis, University of Leeds.
- Mason, P.J. (1972): "Sloping convection in a container with sloping end walls." Ph.D. thesis, University of Reading.
- (1975): "Baroclinic waves in a container with sloping endwalls." Phil. Trans. Roy. Soc. London, (A) 278, 397-445.
- Read,P.L. (1988): "The dynamics of rotating fluids: the 'philosophy' of laboratory experiments and studies of the atmospheric general circulation." Met. Mag., 117, 35-45.
- (1989): "Determination of stream functions and velocity potentials using analysed velocity fields from VVAS data." Met. Office Internal report (21), IR89/1.
- Robinson, A.R. (1959): "The symmetric state of a rotating fluid differentially heated in the horizontal." J. Fluid Mech., 6, 4, 599-620.
- Small,R.M. (1989): "Heat flow annulus documentation." Met.O.21, Technical documentation, for a copy please apply to the head of the Robert Hooke Institute, Oxford University.
- Thomson, J. (1892): "On the grand currents of atmospheric circulation." Phil. Trans. Roy. Soc., London, (A), 183, 653-684.
- Tritton, D.J. (1988): "Physical fluid dynamics." O.U.P., ISBN 0-19-854493-6, 519 pages.
- White, A.A. (1988): "The dynamics of rotating fluids: numerical modelling of annulus flows." Met. Mag. 117, 54-63.