

APPENDIX C

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Appendix C (Continued)

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APPENDIX D

SYNOPSIS OF FACET SCHEDULES

A	Aviation in general
Ab	Civil (by field of service, ownership, area of service)
Ai	Sporting
Aj	Military
Az	Other engineering structures
B	Aircraft (various characteristics of division)
C	Structural parts, including
Ca	Combinations
Cd	Wing
Cn	Tail unit
Cp	Control surfaces
Db	Rotor
Dc	Propeller (various characteristics of division, also its parts)
Ea	Fuselage, body (and their parts)
Ei	Nacelle, pod
Ej	Envelope
Ek	Cowling
Em	Skin
En	Alighting gear (and its parts)
Ev	Flying controls (and their parts)
Eyt	Trimming controls
Ez	Model-testing equipment (when object of study)
Fa	Structural parts and elements
Fm	Bodies in general
Ga	Engine, power-plant (various characteristics of division)
Gn	Ancillary equipment
Gu	Auxiliary systems and equipment
Ha	Machine components
Hx	Machine properties and processes
I	Spatial properties
Ia	Portion
Ig	Shape
Iv	Dimensions
Ix	Arrangement
Ja	Performance
Jt	Conditions of flight

Appendix D (Continued)

K	Flying operations, manoeuvres
La	Navigation
Lw	Air Traffic control
Ma	Aircraft instruments and aids
Mn	Maps and charts (and their characteristics)
Mr	Ground services
Mu	Personnel
Mv	Accidents and hazards
N	Aerodynamics in general
Na	Fluids
Nb	Aerodynamic entities
Nbd	Interface
Nbf	Flow (by speed, type, dimension)
Nfl	Boundary layer
Ng	Flow elements
Ni	Attributes
Nn	Fluid properties
Np	Aerodynamic forces
Oa	Control, stability, &c.
Ok	Processes and properties
Om	Aeroelasticity
Op	Buffeting
Oq	Aerodynamic reference parameters
P	Materials (by use, by constitution)
Pr	State and form of matter
Q	Manufacturing processes
Ra	Mechanics of rigid bodies
Rg	Mechanics of deformable bodies
Rt	Surface properties
Rx	Porosity
Sa	Mechanical vibration (with properties and processes)
Sg	Electromagnetic wave and particle motion
Sgb	Radiations
Sh	Particles
Sm	Thermal behaviour of materials
Sr	Thermodynamic properties and processes
Ta	Structure
Td	Crystal properties (and phenomena)
Tk	Chemical properties and behaviour
Tv	Biological properties

Appendix D (Continued)

Ua	Aviation medicine
Um	Meteorology, weather
V	General technical operations
Vk	Apparatus (including mode-testing equipment)
Vv	Recording (methods and equipment)
W	Electrical and electronic equipment
Wd	Circuits
Wf	Components
Wq	Properties
Wt	Processes
Xa	Managerial operations
Xg	Personnel operations
Xk	Research
Y	Mathematics
Yp	Methods
Yx	Computers
(Z)	General properties
(Zq)	Magnitude
(Zu)	General attributes
(1/9)	Geographical schedules
:b	Literary form
:c	Charts

Appendix D (Continued)

SCHEDULES FOR AERODYNAMICS

N	Aerodynamics, Including fluid dynamics
Na	Fluids
Nad	Perfect, Ideal fluids
Nap	Real fluids
Naq	Gases (Aerodynamics)
Nar	Air (Aerodynamics) Other gases divide by P, Materials
Nas	Rarefied gases
Nat	Compressed gases
Nav	Liquids (Fluid dynamics)
Naw	Water, (Fluid dynamics) Other liquids divide by P, Material
Nb	Aerodynamic entities
Nbd	Gaseous interfaces, free surfaces
Nbf	Flow
	By speed
Nbg	Low speed (< Mach 0.3) flow
Nbh	Subsonic flow
Nbj	Transonic flow
Nbk	Supersonic flow
Nbm	Hypersonic (> Mach 5) flow
	Definitions: Subsonic: No part sonic or supersonic
	Transonic: Partly subsonic, partly supersonic
	Supersonic: No part subsonic
Nc	Types of flow
Ncb	Free stream flow
Ncd	Laminar flow
Nce	Transitional flow
Ncf	Turbulent flow
Nch	Steady, continuous flow
Nci	Unsteady flow
Ndb	Rotational flow
Ndd	Irrotational flow
Ndf	Potential flow
Ndh	Adiabatic flow
Ndj	Diabatic flow
Ndm	Isentropic flow
Ndp	Non-isentropic flow

Appendix D (Continued)

Neo	Reversible flow	
Nee	Irreversible flow	
Neg	Prandtl-Meyer, Expansion flow	
Nei	Slip flow	
Nek	Free molecule flow	
Nep	Shear flow	
Ner	Cavity flow	
Net	Separated flow	
Nev	Mixed flow	
New	Re-energised flow	Divide Nbf also by shape, bracketed - e.g. Conical flow Nbf (Igr)
Nf	By dimension	Add number Two dimensional flow Nf2
Nfd	Non-viscous flow	
Nff	Viscous flow	
Nfh	Incompressible flow	
Nfj	Compressible flow	
Nfk	Boundary layer	
Nfn	Transition (Boundary layer)	
Nfp	Separation (Boundary layer)	
Nfr	Bubble (Boundary layer)	
	Flow elements	
Ngc	Streamlines	
Nge	Sources	
Ngg	Sinks	
Ngj	Doublets	
Ngk	Vortices	
Ngm	Bound Vortices	
Ngn	Vortex Filaments	
Ngp	Vortex Sheets	
Ngq	Vortex Streets	
Ngx	Jets	
Nh	Waves	
Nhb	Expansion waves	
Nhd	Compression, shock waves	
Nhf	Normal shock waves	
Nhh	Oblique shock waves	
Nhj	Attached shock waves	

Appendix D (Continued)

Nhk	Detached shock waves	
Nbm	Mach waves	Divide by S, Mechanical vibration - e.g. Attenuation: Shock waves Nhd Sfr
	Attributes	
Ni	Velocity (Aerodynamics)	
Nic	Mass flowrate	
Nie	Velocity gradient	
Nj	Similarity parameters	
Njb	Mach number	
Njd	Critical Mach number	
Njf	Mach number of divergence	
Njh	Prandtl number	
Njj	Nusselt number	
Njm	Reynolds number	
Njp	Froude number	
Nkb	Profile	
Nkd	Thickness ratio	
Nkf	Circulation	
Nkh	Vorticity	
Nm	Hydrodynamic characteristics	
Nmd	Spray	
Nn	Fluid properties	
Nnc	Density (fluids)	
Nng	Compressibility	
Nni	Viscosity	
Nnk	Kinematic viscosity	
Nns	Surface tension, capillarity	
Np	Aerodynamic characteristics	
Npa	Aerodynamic forces	
Npb	Aerodynamic loads	
Nq	Lift	
Nqb	Non-linear lift	
Nr	Drag	
Nrb	Profile, Zero lift drag	
Nrd	Form drag	
Nrf	Skin friction drag	
Nrh	Wave drag	

Appendix D (Continued)

Nrh	Induced drag, Drag due to lift
Nrm	Parasite, Interference drag
Nrp	Base drag
Ns	Side force
	Other loads
Ntb	Buffeting load
Ntq	Gust loads
Nti	Impact loads (hydrodynamics)
Nu	Moments
Nub	Pitching moments
Nud	Rolling moments
Nuf	Yawing moments
Nuh	Hinge moments
Nv	Pressure
Nvd	Dynamic pressure
Nvf	Pressure distribution
Nvh	Centre of pressure
Nvk	Pressure gradient
Nvm	Pressure recovery
Oa	Control
Oaf	Later control
Oak	Longitudinal control
Oap	Directional control
Ob	Stability (aerodynamics)
Obb	Static stability
Oc	Dynamic stability
Ocb	Longitudinal stability
Ocd	Phugoid stability
Ocf	Short-period longitudinal stability
Och	Lateral, directional stability
Ocj	Snaking
Ocm	Dutch rolling
Ocp	Stability derivatives
Od	Manoeuvrability (aerodynamics)
Oe	Interference, interaction
Of	Stagnation
Og	Choking

Appendix D (Continued)

Oi	Aerodynamic heating	
Ojb	Downwash	
Ojd	Upwash	
Ojf	Sidewash	
Ojh	Wake	
Ojm	Slipstream	
Ojp	Turbulence	
Ojr	Surging	
Ojt	Ground effect	
	Process and properties	
Okb	Suction	
Okd	Blowing	
Okk	Aut rotation, Windmilling	
Okm	Feathering	
Om	Aeroelasticity	
Omb	Vibration, (Aeroelasticity)	
On	Flutter	
Onb	Flexure-torsion flutter	Divide by W_s Wave properties e.g. Frequency: flutter, $On W$
Onf	Buzz	
Op	Buffeting	
Oq	Aerodynamic reference parameters	
	Fixed wing	
Oqb	Angle of incidence, Angle of attack	
Oqd	Angle settings	
Oqf	Wing-fuselage angle settings	
Oqh	Tail-fuselage angle settings	
Oqj	Decalage (Wing-wing)	
Oqm	Planform	Attach I_{id} etc. directly to C_d etc. Use Oqm for generalities on planform only Add number of degrees, e.g. 45° Sweepback Sweptback 45° ; Wings C_d Oqp 45 See I_{ibb} Sweptback, I_{ibd} Sweptforward
Oqp	Sweepback)	
Oqr	Sweepforward)	
Oqt	Aspect ratio	
Oqv	Taper ratio	
Oqw	Thickness ratio	

Appendix D (Continued)

Oqx	Twist
Oqy	Dihedral
Oqz	Wing area
Osb	Span
Osg	Quarter chord line
Osi	Chord
Osj	Geometric mean chord
Osk	Aerodynamic mean chord
Osn	Quarter chord point
Osq	Aerofoil sections, Aerofoil profiles
Oss	Camber
	Rotating wing
Oub	Tilt
Oud	Disc area
Ouf	Solidity
Ouh	Diameter
Oup	Pitch (Rotors)
Our	Collective pitch
Out	Cyclic pitch
Ouv	Fore-aft cyclic pitch
Ouw	Lateral cyclic pitch