
Acknowledgements

Over the years I have been fortunate to have worked with a number of very able people from whom I have learned a great deal. My own understanding and interpretation of the subject has benefited enormously from that contact and it is appropriate to acknowledge the contributions of those individuals.

My own formal education was founded on the text by W.J. Duncan and, later, on the first text by A.W. Babister and as a result the structure of the present book has many similarities to those earlier texts. This, I think, is inevitable since the treatment and presentation of the subject has not really been bettered in the intervening years.

During my formative years at GEC-Marconi Avionics Ltd I worked with David Sweeting, John Corney and Richard Smith on various flight control system design projects. This activity also brought me into contact with Brian Gee, John Gibson and Arthur Barnes at British Aerospace (Military Aircraft Division) all of whom are now retired. Of the many people with whom I worked these individuals in particular were, in some way, instrumental in helping me to develop a greater understanding of the subject in its widest modern context.

During my early years at Cranfield my colleagues Angus Boyd, Harry Ratcliffe, Dr Peter Christopher and Dr Martin Eshelby were especially helpful with advice and guidance at a time when I was establishing my teaching activities. I also consider myself extremely fortunate to have spent hundreds of hours flying with a small but distinguished group of test pilots, Angus McVitie, Ron Wingrove and Roger Bailey as we endeavoured to teach and demonstrate the rudiments of flight mechanics to generations of students. My involvement with the experimental flying programme was an invaluable experience which has enhanced my understanding of the subtleties of aircraft behaviour considerably. Later, the development of the postgraduate course in Flight Dynamics brought me into contact with colleagues, Peter Thomasson, Jim Lipscombe, John Lewis and Dr Sandra Fairs with all of whom it was a delight to work. Their co-operative interest, and indeed their forbearance during the long preparation of the first edition of this book, provided much appreciated encouragement. In particular, the knowledgeable advice and guidance so freely given by Jim Lipscombe and Peter Thomasson, both now retired, is gratefully acknowledged as it was certainly influential in my development of the material. On a practical note, I am indebted to Chris Daggett who obtained the experimental flight data for me which has been used to illustrate the examples based on the College of Aeronautics Jetstream aircraft.

Since the publication of the first edition, a steady stream of constructive comments has been received from a very wide audience and all of these have been noted in the preparation of the second edition. However, a number of individuals have been especially supportive and these include; Dr David Birdsall, of Bristol University who wrote a very complimentary review shortly after publication, Dr Peter Render of

Loughborough University, an enthusiastic user of the book and who very kindly provided a selection of his past examination papers for inclusion in the second edition, and my good friend Chris Fielding of BAE Systems who has been especially supportive by providing continuous industrial liaison and by helping to focus the second edition on the industrial applications. I am also grateful of Stephen Cardnuff who provided considerable help at the last minute by helping to prepare the solutions for the end of chapter problems.

I am also indebted to BAE Systems who kindly provided the front cover photograph, and especially to Communications Manager Andy Bunce who arranged permission for it to be reproduced as the front cover. The splendid photograph shows Eurofighter Typhoon IPA1 captured by Ray Troll, Photographic Services Manager, just after take off from Warton for its first flight in the production colour scheme.

The numerous bright young people who have been my students have unwittingly contributed to this material by providing the all important “customer feedback”. Since this is a large part of the audience to which the work is directed it is fitting that what has probably been the most important contribution to its continuing development is gratefully acknowledged.

I would like to acknowledge and thank Stephen Cardnuff who has generated the on-line Solutions Manual to complement this text.

Finally, I am indebted to Jonathan Simpson of Elsevier who persuaded me that the time was right for a second edition and who maintained the encouragement and gentle pressure to ensure that I delivered more-or-less on time. Given the day to day demands of a modern university, it has been a struggle to keep up with the publishing schedule, so the sympathetic handling of the production process by Pauline Wilkinson of Elsevier was especially appreciated.

To the above mentioned I am extremely grateful and to all of them I extend my most sincere thanks.