

Applying Mathematics
To Astro Navigation



Jack Case



Applying Mathematics To Astro Navigation

By Jack Case

*Part of the Astro Navigation
Demystified Family*

Applying Mathematics To Astro Navigation Astro Navigation Demystified

Anthony Nesbit



Applying Mathematics To Astro Navigation Astro Navigation Demystified:

Applying Mathematics to Astro Navigation Jack Case, 2014-02-19 Applying Mathematics to Astro Navigation This addition to the Astro Navigation Demystified series focuses on the mathematical principles upon which astro celestial navigation is based and it will appeal to anyone with an interest in these subjects whether they be navigators or mathematicians A must for navigation course tutors and mathematics teachers Few navigation books describe techniques that involve first principles instead they mostly describe methods which rely upon the use of tables of computed data and rote learned procedures There is obviously very little educational value in such techniques far better that students of the subject should be helped to discover and apply the underlying principles for themselves Accordingly the approach adopted in this book involves putting the student in the place of a navigator who has no automated navigation equipment nautical almanac chronometer or Sat Nav and who must therefore discover a means of navigating without them To this end readers are guided through a method of calculating a position on the earth's surface by the application of spherical trigonometry without reliance upon equipment other than an angle measuring device such as a simple clinometer Section two of the book which is very popular with teachers and college lecturers contains activities that are designed to provide opportunities to consolidate the knowledge acquired and provide ideal starting points for open ended projects They are suitable for people with a wide range of interests from seafarers and sailing enthusiasts to students of mathematics and nautical studies Note The terms celestial navigation and astro navigation are generally regarded as synonymous Other books in the Astro Navigation Demystified Series Astro Navigation Demystified The ultimate book of the series it is a complete course in astro celestial navigation This unique self teach course comprehensively covers all relevant elements of the examination syllabuses of the main sailing associations Part one ranges from simple explanations of the basic principles through to detailed expositions of the important aspects of the subject Part two provides a comprehensive coverage of the use of rapid sight reduction techniques for position fixing Celestial Navigation The Ultimate Course The traditional method of celestial navigation involving the use of spherical trigonometry to calculate a vessel's position is comprehensively taught in this book At first sight the term spherical trigonometry might seem quite daunting but with the knowledge of just two formulas and with a little practice of the methods explained in this book it will be found to be quick and easy to apply as well as very accurate With this method we make accurate calculations using data taken directly from a vessel's DR position and so avoid the inaccuracies of sight reduction methods that involve interpolation from tables using data based on an assumed position Astronomy For Astro Navigation This book focuses on those aspects of astronomy that are essential for a complete understanding of astro navigation a must for sailors navigators nautical colleges and navigation tutors Teachers and students of many other subjects including geography and mathematics will also find this book interesting entertaining and very informative The only book of its kind no other book focuses on only those aspects of astronomy that are relevant to astro

navigation An ideal introduction to both astronomy and astro navigation containing 178 letter size pages packed with illustrations detailed diagrams and clear explanations Know the stars and you will always have a compass The Revenant The Astro Navigation Demystified website provides a free resource for all those interested in the subject of astro navigation or celestial navigation as it is also known www.astronavigationdemystified.com **Astronomy for Astro Navigaton** Jack Case, Jack Case M a, 2015-03-31 An ideal introduction to astronomy and astro navigation 178 letter size pages packed with full colour illustrations detailed diagrams and clear explanations This book focuses on those aspects of astronomy that are essential for a complete understanding of astro navigation a must for sailors navigators nautical colleges and navigation tutors Teachers and students of many other subjects including geography and mathematics will also find this book interesting entertaining and very informative The only book of its kind The final book of the Astro Navigation Demystified trilogy Author s preface Astronomy is a vast and complex subject and when I was taught astro navigation I often wished my tutor would cut to the chase and focus on only those aspects of astronomy that were relevant When I taught navigation myself I searched high and low for an astronomy book that would allow me to pick out just those topics that I needed to teach my students but I was never able to find one For many years I meant to write such a book myself to help other astro navigation tutors and students and now at last I have found time to do so *Astronomy for Astro Navigation* Jack Case, Jack Case Ma, 2015-04-16 An ideal introduction to astronomy and astro navigation 178 letter size pages packed with full colour illustrations detailed diagrams and clear explanations This book focuses on those aspects of astronomy that are essential for a complete understanding of astro navigation a must for sailors navigators nautical colleges and navigation tutors Teachers and students of many other subjects including geography and mathematics will also find this book interesting entertaining and very informative The only book of its kind The final book of the Astro Navigation Demystified trilogy Author s preface Astronomy is a vast and complex subject and when I was taught astro navigation I often wished my tutor would cut to the chase and focus on only those aspects of astronomy that were relevant When I taught navigation myself I searched high and low for an astronomy book that would allow me to pick out just those topics that I needed to teach my students but I was never able to find one For many years I meant to write such a book myself to help other astro navigation tutors and students and now at last I have found time to do so **Celestial Navigation** Jack Case, M. A., 2016-07-11 If you are looking for something to enable you to rote learn only what you need to pass an exam without real understanding then sorry this is not the book for you If however you want a book that will not only help you to pass exams but also teach you to navigate and to understand what you are doing then you have come to the right place This unique self teach course comprehensively covers all elements of the examination syllabuses of the main sailing associations Traditional methods of celestial navigation are taught in a way that is easier faster and more accurate than other methods and does not rely on vast tables of data other than the Nautical Almanac Although the prime aim of the course is to teach the practical skills of celestial navigation it is emphasised that

without knowledge skill is nothing At the same time it is recognised that students quickly lose interest if they are expected to plough through reams of theory before they can get down to the business of learning the skills With this in mind this course has been uniquely designed to teach the important skills from the outset while tying in the relevant theory as progress is made There are numerous examples and self test exercises which enhance the learning process and help to embed the knowledge and skills needed to practise the art of celestial navigation Although it is a large book containing 324 letter size pages it is thoroughly cross referenced and its layout enables the reader to move from one section to another without having to read it from beginning to end With regard to the mathematical aspects of the subject the author has adopted a language style which allows the text to flow smoothly and makes for enjoyable reading which is a departure from the stilted academic language of many text books Note The terms celestial navigation and astro navigation are generally regarded as synonymous For further information The Astro Navigation Demystified website provides a free resource for all those interested in the subject www.astronavigationdemystified.com **Library of Useful Knowledge** ,1834 **Natural Philosophy ..** ,1834

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