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Bearings & Azimuths What is Bearing of a Line? Bearing of a line is the angle measured from either the north or south end of a reference meridian. The angle is observed from north or south towards the east or west, to give a reading less than  $90^\circ$ . Bearing is represented by the letter N or S preceding the angle.

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Azimuth Computation (Section 7.9) (don't worry about bearing calcs in 7.10) For a closed polygon we often wish to determine the azimuths of line from the interior angles. Once we verify the sum of the interior angles =  $180(n-2)$ , we start from a known azimuth and proceed in a clockwise or counterclockwise direction around the traverse.

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Step 2. Perform the calculation. Start by writing down the starting azimuth. Add  $180^\circ$  to obtain the back azimuth. Subtract the interior angle to obtain the azimuth of the next line. If the result is greater than 360, subtract 360. Write down the azimuth on the sketch. Step 3. Repeat the calculation for each line of the traverse.

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Online PDF Ebook Epub Library BEARINGS AND AZIMUTHS STEP BY STEP GUIDE SURVEYING MATHEMATICS

How to add bearings and angles, subtract between bearings, convert from degrees-minutes-seconds to decimal degrees, convert from decimal degrees to degrees-minutes-seconds, convert from bearings to azimuths and convert from azimuths to bearings.

Step-by-step guidance for clear answers to common math problems, this guide has extensive coverage of all situations involving numbers. Technical terms are highlighted and cross-referenced, and the book includes a concise directory to all information.

Updated throughout, this highly readable best-seller presents basic concepts and practical material in each of the areas fundamental to modern surveying (geomatics) practice. Its depth and breadth are ideal for self-study. Includes a new Chapter 16 on Kinematic GPS. Features several new sections on machine control, localization of GPS surveys, and construction staking using GPS added to Chapters 16, 19, and 23. Moves Astronomical observations chapter to Appendix C to reflect that in recent years, kinematic GPS has replaced astronomical observations for position and azimuth. Emphasizes total stations as the instruments for making angle and distance observations. A useful reference for civil engineers.

SURVEYING: PRINCIPLES & APPLICATIONS, 9/e is the clearest, easiest to understand, and most useful introduction to surveying as it is practiced today. It brings together expert coverage of surveying principles, remote sensing and other new advances in technological instrumentation, and modern applications for everything from mapping to engineering. Designed for maximum simplicity, it also covers sophisticated topics typically discussed in advanced surveying courses. This edition has been reorganized and streamlined to align tightly with current surveying practice, and to teach more rapidly and efficiently. It adds broader and more valuable coverage of aerial, space and ground imaging, GIS, land surveying, and other key topics. An extensive set of appendices makes it a useful reference for students entering the workplace.

This fifth edition of 'Surveying with Construction Applications' begins with a firm foundation in the principles of surveying, then supports this with real-world construction applications. Coverage reflects the latest developments and includes in-depth discussions of more traditional topics.

Your All-in-One Navigation Tool Kit Celestial navigation remains an essential skill for every mariner who ventures out of sight of land. In this era of electronic navigation, it is the perfect backup system, enabling you to determine your position when the GPS malfunctions or your boat loses electrical power. Here in one volume is every bit of information you need to understand the process, take sights, and find your location anywhere in the world. Compiled for beginning and experienced celestial navigators alike, and elegantly designed on the assumption that 1-mile precision is perfectly adequate for backup navigation, this handy volume replaces \$300 worth and thousands of pages of guides, tables, and almanacs. The Complete On-Board Celestial Navigator includes: A clear, concise primer/refresher that explains the entire process A five-year nautical almanac (2007–2011) for determining precise star, sun, moon, and planet locations at the time of sighting A star finder Sight reduction tables for crunching the numbers and producing a fix anywhere in the world "The only complete self-contained work available. When your electronic navigation fails, 'steering by the stars' will guide you safely to your destination."—Sydney Afloat (Australia)

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