

SECTION 1 Measuring Motion continued

The average speed of the dog is:

$$\text{average speed} = \frac{\text{total distance walked}}{\text{total time}} = \frac{7 \text{ m}}{10 \text{ s}} = .07 \text{ m/s}$$

What Is Velocity?

Suppose that two birds leave the same tree at the same time. They both fly at 10 km/h for 5 min, then 5 km/h for 10 min. However, they don't end up in the same place. Why not?

The birds did not end up in the same place because they flew in different directions. Their speeds were the same, but because they flew in different directions, their velocities were different. **Velocity** is the speed of an object and its direction. **ET**

The velocity of an object is constant as long as both speed and direction are constant. If a bus driving at 15 m/s south speeds up to 20 m/s south, its velocity changes. If the bus keeps moving at the same speed but changes direction from south to east, its velocity also changes. If the bus brakes to a stop, the velocity of the bus changes again.

The table below shows that velocity is a combination of both the speed of an object and its direction.

Speed	Direction	Velocity
15 m/s	south	15 m/s south
20 m/s	south	20 m/s south
20 m/s	east	20 m/s east
0 m/s	east	0 m/s east

Velocity changes when the speed changes, when the direction changes, or when both speed and direction change. The table below describes various situations in which the velocity changes.

Situation	What changes
Skidding falling layer and basket	
Runner going around a turn on a track	direction
Car taking an exit off a highway	speed and direction
Train arriving at a station	speed
Baseball being caught by a catcher	speed
Baseball hit by a batter	
	speed and direction

 READING CHECK

B. Analyze Someone tells you that the velocity of a car is 55 m/s. Is this correct? Explain your answer.

 Say It

Share Experiences Have you ever experienced a change in velocity on an amusement park ride? In pairs, share an experience. Explain how the velocity changed—was it a change in speed, direction, or both?

TAKE A LOOK

B. Identify Fill in the empty boxes in the table.

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G Orfield



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Modeling Natural Brain Dynamics Klaus Gramann,Tzyy-Ping Jung,Daniel P. Ferris,Chin-Teng Lin,Scott Makeig,2014-10-03 Decades of brain imaging experiments have revealed important insights into the architecture of the human brain and the detailed anatomic basis for the neural dynamics supporting human cognition However technical restrictions of traditional brain imaging approaches including functional magnetic resonance tomography fMRI positron emission tomography PET and magnetoencephalography MEG severely limit participants movements during experiments As a consequence our knowledge of the neural basis of human cognition is rooted in a dissociation of human cognition from what is arguably its foremost and certainly its evolutionarily most determinant function organizing our behavior so as to optimize its consequences in our complex multi scale and ever changing environment The concept of natural cognition therefore should not be separated from our fundamental experience and role as embodied agents acting in a complex partly unpredictable world To gain new insights into the brain dynamics supporting natural cognition we must overcome restrictions of traditional brain imaging technology First the sensors used must be lightweight and mobile to allow monitoring of brain activity during free participant movements New hardware technology for electroencephalography EEG and near infrared spectroscopy NIRS allows recording electrical and hemodynamic brain activity while participants are freely moving New data driven analysis approaches must allow separation of signals arriving at the sensors from the brain and from non brain sources neck muscles eyes heart the electrical environment etc Independent component analysis ICA and related blind source separation methods allow separation of brain activity from non brain activity from data recorded during experimental paradigms that stimulate natural cognition Imaging the precisely timed distributed brain dynamics that support all forms of our motivated actions and interactions in both laboratory and real world settings requires new modes of data capture and of data processing Synchronously recording participants motor behavior brain activity and other physiology as well as their physical environment and external events may be termed mobile brain body imaging MoBI Joint multi stream analysis of recorded

MoBI data is a major conceptual mathematical and data processing challenge This Research Topic is one result of the first international MoBI meeting in Delmenhorst Germany in September 2013 During an intense workshop researchers from all over the world presented their projects and discussed new technological developments and challenges of this new imaging approach Several of the presentations are compiled in this Research Topic that we hope may inspire new research using the MoBI paradigm to investigate natural cognition by recording and analyzing the brain dynamics and behavior of participants performing a wide range of naturally motivated actions and interactions

Principles and Practice of Robotic Surgery - E-Book Tony Costello,2023-07-04 Robot assisted surgery soon to be incorporated into most surgical disciplines can reduce postoperative complications by up to 50% and has been shown to result in reduced blood loss earlier hospital discharge and faster return to normal activity for the patient Edited by master surgeon Tony Costello and with contributions from the world's best and most experienced robotic surgeons worldwide Principles and Practice of Robotic Surgery is an up to date all in one reference that provides step by step instruction for practicing surgeons and those who are entering robotic surgery training This first of its kind text discusses new technologies and their application in each surgical subspecialty with hundreds of outstanding illustrations and high quality videos making this an ideal resource for the entire OR team Covers every aspect of nearly all current adult and pediatric robotic surgeries in all surgical disciplines Includes key topics such as robotic anesthesia operating room prep and positioning of the equipment certification for robotic training and the use of artificial intelligence and virtual reality in the present and potential future use of robotic surgery Discusses the evolution of robotic machines with a focus on new and emerging machines for surgery and education Provides specific docking instructions with tips and tricks for each robotic operation Offers comprehensive coverage in a magnificently illustrated single volume book with contributions from an international Who's Who of the world's best robotic surgeons Offers numerous procedural videos including Robotic Prostatectomy The Patel Approach Female Pelvic Organ Sparing POP and Male Nerve Sparing NS RARC XiXi Operating Room and Surgical Cart setup for TORS as well as various TORS procedures Robotic Surgery in Pediatric Otolaryngology Head and Neck Surgery and more

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Fundamentals of Nursing E-Book Barbara L Yoost,Lynne R Crawford,2019-01-23 Yoost and Crawford's Fundamentals of Nursing is back for a second edition encore The text that made its name by focusing on simple language and active learning continues its focus on helping you truly understand apply and retain important nursing information and concepts Using a warm and conversational style this new second edition guides you towards a basic understanding of the nursing profession and then logically progresses through the nursing process and into the safe and systematic methods of applying care Each chapter features realistic and complex case studies and critical thinking exercises woven throughout the content to help you continually apply what you've

learned to actual patient care A conceptual care mapping approach created by Yoost and Crawford themselves further your ability to make clinical judgments and synthesize knowledge as you develop plans of care after analyzing and clustering related patient assessment data All of this paired with a wealth of student friendly learning features and clinically focused content offers up a fundamentally different and effective way for you to easily master the fundamentals of nursing UNIQUE Warm friendly writing style slows down the pace of information to give readers time to critically think and master all fundamental concepts and skills UNIQUE Building block approach groups topics and concepts together thematically in the order needed for readers to build their knowledge UNIQUE Objective driven approach presents clearly defined numbered objectives that coordinate with all content and then wrap up with Objective Summaries UNIQUE Active learning activities are incorporated throughout every chapter to help readers learn to apply chapter content to broader nursing concepts and realistic patient scenarios UNIQUE Conceptual care mapping is taught and used throughout the text in conjunction with the Conceptual Care Map Creator UNIQUE Emphasis on QSEN reinforces the Quality and Safety Education for Nurses competencies including patient centered care teamwork and collaboration evidence based practice quality improvement safety and informatics Special feature boxes cover the areas of diversity consideration evidence based practice informatics patient education healthy literacy health assessment questions interprofessional collaboration and delegation ethical and legal practice home care considerations safe practice alerts QSEN critical thinking exercises and nursing care guidelines NEW Interprofessional collaboration and delegation content appears throughout the text along with new IPE activities that are integrated into the Evolve resources NEW UNIQUE Review and exam questions tied to learning objectives use a building block style approach that starts at lower Bloom s taxonomy levels in early chapters and builds to more complex levels as readers acquire more knowledge NEW Emphasis on assignment and delegation covers the differences between them and how and when they re appropriate for an RN NEW Content on complementary therapies has been integrated throughout the text to reflect the changes to the NCLEX exam NEW Additional information has been added in the areas of HCAHPS Health Literacy Patient Education Drugs of Abuse Zika Ebola and more

Sea Ice Mohammed Shokr,Nirmal K. Sinha,2023-04-20
SEA ICE The latest edition of the gold standard in sea ice references In the newly revised second edition of Sea Ice Physics and Remote Sensing a team of distinguished researchers delivers an in depth review of the features and structural properties of ice as well as the latest advances in geophysical sensors ice parameter retrieval techniques and remote sensing data The book has been updated to reflect the latest scientific developments in macro and micro scale sea ice research For this edition the authors have included high quality photographs of thin sections from cores of various ice types as well as a comprehensive account of all major field expeditions that have systematically surveyed sea ice and its properties Readers will also find A thorough introduction to ice physics and physical processes including ice morphology and age based structural features Practical discussions of radiometric and radar scattering observations from sea ice including radar backscatter and

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