

Conceptual Physical Science Explorations Ch 17 Answers

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Inquiry and the National Science Education Standards National Research Council 2000-05-03 Humans, especially children, are naturally curious. Yet, people often balk at the thought of learning science--the "eyes glazed over" syndrome. Teachers may find teaching science a major challenge in an era when science ranges from the hardly imaginable quark to the distant, blazing quasar. Inquiry and the National Science Education Standards is the book that educators have been waiting for--a practical guide to teaching inquiry and teaching through inquiry, as recommended by the National Science Education Standards. This will be an important resource for educators who must help school boards, parents, and teachers understand "why we can't teach the way we used to." "Inquiry" refers to the diverse ways in which scientists study the natural world and in which students grasp science knowledge and the methods by which that knowledge is produced. This book explains and illustrates how inquiry helps students learn science content, master how to do science, and understand the nature of science. This book explores the dimensions of teaching and learning science as inquiry for K-12 students across a range of science topics. Detailed examples help clarify when teachers should use the inquiry-based approach and how much structure, guidance, and coaching they should provide. The book dispels myths that may have discouraged educators from the inquiry-based approach and illuminates the subtle interplay between concepts, processes, and science as it is experienced in the classroom. Inquiry and the National Science Education Standards shows how to bring the standards to life, with features such as classroom vignettes exploring different kinds of inquiries for elementary, middle, and high school and Frequently Asked Questions for teachers, responding to common concerns such as obtaining teaching supplies. Turning to assessment, the committee discusses why assessment is important, looks at existing schemes and formats, and addresses how to involve students in assessing their own learning achievements. In addition, this book discusses administrative assistance, communication with parents, appropriate teacher evaluation, and other avenues to promoting and supporting this new teaching paradigm.

Conceptual Physical Science Paul G. Hewitt 2011-11-21 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Conceptual Physical Science, Fifth Edition, takes learning physical science to a new level by combining Hewitt's leading conceptual approach with a friendly writing style, strong integration of the sciences, more quantitative coverage, and a wealth of media resources to help professors in class, and students out of class. It provides a conceptual overview of basic, essential topics in physics, chemistry, earth science, and astronomy with optional quantitative coverage.

Conceptual Physics Paul G. Hewitt 1992

Transforming the Workforce for Children Birth Through Age 8 National Research Council 2015-07-23 Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

Systems Engineering and Analysis Benjamin S. Blanchard 2006 This reference examines the engineering of both natural and human-made systems and the analysis of those systems. For the engineering of systems, the authors emphasize the process of bringing systems into being. Regarding analysis, they explore the improvement of systems already in existence. Includes a wealth of new and revised figures throughout. Features significant revisions and new material on Bringing Systems Into Being (Ch. 2); Conceptual Design (Ch. 3); Design For Supportability (Ch. 15); Design For Affordability - Life-Cycle Costing (Ch. 17). Adds material on the integration of design disciplines in the systems engineering. Concludes each chapter with new Summary Extensions. Provides a new supplier evaluation checklist. Includes a new appendix that lists 35 key related web sites. A useful reference for electrical, electronic, and automotive engineers, as well as professionals in the aeronautics, astronautics, and manufacturing industries.

Leddy & Pepper's Conceptual Bases of Professional Nursing Lucy Hood 2013-11-26 Easy to read and highly practical, Leddy & Pepper's Conceptual Bases of Professional Nursing, 8th Edition provides a broad overview of the nursing profession, addressing philosophical, developmental, sociocultural, environmental, political, health care delivery, and leadership issues vital for career enhancement. The author covers professional nursing roles and client care issues, stimulate nurses to learn more about presented content, and present strategies to deal with the emotional and ethical dimensions of professional practice. Updated to reflect the latest advances in the field, the Eighth Edition now includes real life clinical scenarios and introduces students to the complex environment of nursing practice today through Hood's Professional Nurse Contributions Model, which synthesizes the affective, cognitive, behavioral, and psychomotor domains of professional practice. Also new is a unique online Interactive Literature Assessment Tool that gets students thinking critically about the relationship between issues discussed in current journal articles and their future nursing careers. This edition also offers an expanded student resource program, which is customizable to the student's level of practice expertise.

College Physics for AP® Courses Irina Lyublinskaya 2017-08-14 The College Physics for AP(R) Courses text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.

Social Science Research Anol Bhattacharjee 2012-04-01 This book is designed to introduce doctoral and graduate students to the process of conducting scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-stop, comprehensive, and compact source for foundational concepts in behavioral research, and can serve as a stand-alone text or as a supplement to research readings in any doctoral seminar or research methods class. This book is currently used as a research text at universities on six continents and will shortly be available in nine different languages.

Chemistry 2e Paul Flowers 2019-02-14

Physics Briefs 1987

Fundamentals of Nursing - E-Book Patricia A. Potter 2013-12-27 Learn fundamental nursing principles, concepts, and skills with ease! Fundamentals of Nursing, 8th Edition includes accurate, cutting-edge content, active learning strategies, and the latest evidence-based research to help you excel in your

classes and prepare for success in today's competitive nursing field. An expert author team led by Patricia Potter and Anne Griffin Perry provides a trusted, comprehensive resource, thoroughly reviewed by nursing experts and peers to ensure the most accurate content. With practical, fully integrated study support, this edition makes it easier than ever to build the understanding and clinical reasoning essential to providing excellent patient care.

Geothermal Power Plants Ronald DiPippo 2011-04-08 Ron DiPippo, Professor Emeritus at the University of Massachusetts Dartmouth, is a world-regarded geothermal expert. This single resource covers all aspects of the utilization of geothermal energy for power generation from fundamental scientific and engineering principles. The thermodynamic basis for the design of geothermal power plants is at the heart of the book and readers are clearly guided on the process of designing and analysing the key types of geothermal energy conversion systems. Its practical emphasis is enhanced by the use of case studies from real plants that increase the reader's understanding of geothermal energy conversion and provide a unique compilation of hard-to-obtain data and experience. An important new chapter covers Environmental Impact and Abatement Technologies, including gaseous and solid emissions; water, noise and thermal pollutions; land usage; disturbance of natural hydrothermal manifestations, habitats and vegetation; minimisation of CO₂ emissions and environmental impact assessment. The book is illustrated with over 240 photographs and drawings. Nine chapters include practice problems, with solutions, which enable the book to be used as a course text. Also includes a definitive worldwide compilation of every geothermal power plant that has operated, unit by unit, plus a concise primer on the applicable thermodynamics. * Engineering principles are at the heart of the book, with complete coverage of the thermodynamic basis for the design of geothermal power systems * Practical applications are backed up by an extensive selection of case studies that show how geothermal energy conversion systems have been designed, applied and exploited in practice * World renowned geothermal expert DiPippo has including a new chapter on Environmental Impact and Abatement Technology in this new edition

Concepts of Biology Samantha Fowler 2018-01-07 Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

College Physics Paul Peter Urone 1997-12

Environment and Behavior Studies Irwin Altman 2012-12-06 This eleventh volume in the series departs from the pattern of earlier volumes. Some of those volumes addressed research, design, and policy topics in terms of environmental settings, for example, homes, communities, neighborhoods, and public places. Others focused on environmental users, for example, children and the elderly. The present volume examines the field of environment and behavior studies itself in the form of intellectual histories of some of its most productive and still visible senior participants. In so doing we hope to provide readers with a grand sweep of the field--its research and design content, methodology, institutions, and past and future trajectories--through the experiences and intellectual histories of its participants. Why intellectual histories? Several factors led to the decision to launch this project. For one, 1989 was an anniversary and commemorative year for the Environmental Design Research Association, perhaps the major and most long-standing interdisciplinary organization of environment and behavior researchers and practitioners. Established in 1969, this organization has been the vehicle for generations of researchers and practitioners from many disciplines to come together annually to exchange ideas, present papers, and develop professional and personal relationships. It held its first and twentieth meetings in North Carolina, with the twentieth conference substantially devoted to discussions of the past, present, and future of the field--a taking stock, so to speak. Thus it seemed appropriate to launch a volume on intellectual histories at this significant juncture in the life of the field.

Aristotle on Inquiry James G. Lennox 2021-05-20 Argues that, for Aristotle, scientific inquiry is governed both by a domain-neutral erotetic framework and by domain-specific norms.

The Eagle and the Dragon Serge Gruzinski 2014-12-23 In this important new book the renowned historian Serge Gruzinski returns to two episodes in the sixteenth century which mark a decisive stage in global history and show how China and Mexico experienced the expansion of Europe. In the early 1520s, Magellan set sail for Asia by the Western route, Cortes seized Mexico and some Portuguese based in Malacca dreamed of colonizing China. The Aztec Eagle was destroyed but the Chinese Dragon held strong and repelled the invaders - after first seizing their cannon. For the first time, people from three continents encountered one other, confronted one other and their lives became entangled. These events were of great interest to contemporaries and many people at the time grasped the magnitude of what was going on around them. The Iberians succeeded in America and failed in China. The New World became inseparable from the Europeans who were to conquer it, while the Celestial Empire became, for a long time to come, an unattainable goal. Gruzinski explores this encounter between civilizations that were different from one another but that already fascinated contemporaries, and he shows that our world today bears the mark of this distant age. For it was in the sixteenth century that human history began to be played out on a global stage. It was then that connections between different parts of the world began to accelerate, not only between Europe and the Americas but also between Europe and China. This is what is revealed by a global history of the sixteenth century, conceived as another way of reading the Renaissance, less Eurocentric and more in tune with our age.

A Book of Abstract Algebra Charles C Pinter 2010-01-14 Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition.

Conceptual Integrated Science Paul G Hewitt 2015-10-08 From the author of the number one textbooks in physical science and physics comes the eagerly awaited new text, Conceptual Integrated Science. Hewitt's critically acclaimed conceptual approach has led science education for 30 years and now tackles integrated science to take student learning to a new level. Using his proven conceptual approach, accessible writing, and fun and informative illustrations, Hewitt and his team of science experts have crafted a text that focuses on the unifying concepts and real-life examples across physics, chemistry, earth science, biology, and astronomy. The book includes best-selling author Paul Hewitt's proven pedagogical approach, straight-forward learning features, approachable style, and rigorous coverage. The result is a wide-ranging science text that is uniquely effective and motivational. Conceptual Integrated Science is accompanied by an unparalleled media package that combines interactive tutorials, interactive figures, and renowned demonstration videos to help students outside of class and instructors in class.

Leddy & Pepper's Conceptual Bases of Professional Nursing Lucy J. Hood 2010 Now in its seventh edition, this text provides nurses with a comprehensive overview of the evolving marketplace, emphasizing the need to develop and maintain sound professionalism.

Conceptual Physical Science Paul G. Hewitt 1993-12

Mortimer J. Adler 2009-08-01 In this classic work, Adler explores how man differs from all other things in the universe, bringing to bear both philosophical insight and informed scientific hypotheses concerning the biological and behavioral characteristics of mankind. Rapid advances in science and technology and the abstract concepts of that influence on man and human value systems are lucidly outlined by Adler, as he touches on the effect of industrialization, and the clash of cultures and value systems brought about by increased communication between previously isolated groups of people. Among the other problems this study addresses are the scientific achievements in biology and physics which have raised fundamental questions about humanity's essential nature, especially the discoveries in the biological relatedness of all living things. Thrown into high relief is humanity's struggle to determine its unique status in the natural world and its value in the world it has created. Ultimately, Adler's work develops an approach to the separation between scientific and philosophical questions which stands as a model of thought on philosophical considerations of new scientific discoveries and its consequences for the human person.

Political Discourse Bhikhu Parekh 1987-01-31 Political Discourse argues that a post-positivistic, critical theory of politics is needed to understand the ideological distortions which are hidden in discourse about human needs and potentialities. The contributors analyse the modes of critical discourse in the works of major Western and Indian philosophers.

College Physics, Volume 2 Raymond A. Serway 2011-01-03 While physics can seem challenging, its true quality is the sheer simplicity of fundamental

physical theories--theories and concepts that can enrich your view of the world around you. COLLEGE PHYSICS, Ninth Edition, provides a clear strategy for connecting those theories to a consistent problem-solving approach, carefully reinforcing this methodology throughout the text and connecting it to real-world examples. For students planning to take the MCAT exam, the text includes exclusive test prep and review tools to help you prepare. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Strengthening Forensic Science in the United States National Research Council 2009-07-29 Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

The Science of Writing C. Michael Levy 2013-11-05 Conceived as the successor to Gregg and Steinberg's Cognitive Processes in Writing, this book takes a multidisciplinary approach to writing research. The authors describe their current thinking and data in such a way that readers in psychology, English, education, and linguistics will find it readable and stimulating. It should serve as a resource book of theory, tools and techniques, and applications that should stimulate and guide the field for the next decade. The chapters showcase approaches taken by active researchers in eight countries. Some of these researchers have published widely in their native language but little of their work has appeared in English-language publications.

Hybrid Electric Vehicles Chris Mi 2017-11-29 The latest developments in the field of hybrid electric vehicles Hybrid Electric Vehicles provides an introduction to hybrid vehicles, which include purely electric, hybrid electric, hybrid hydraulic, fuel cell vehicles, plug-in hybrid electric, and off-road hybrid vehicular systems. It focuses on the power and propulsion systems for these vehicles, including issues related to power and energy management. Other topics covered include hybrid vs. pure electric, HEV system architecture (including plug-in & charging control and hydraulic), off-road and other industrial utility vehicles, safety and EMC, storage technologies, vehicular power and energy management, diagnostics and prognostics, and electromechanical vibration issues. Hybrid Electric Vehicles, Second Edition is a comprehensively updated new edition with four new chapters covering recent advances in hybrid vehicle technology. New areas covered include battery modelling, charger design, and wireless charging. Substantial details have also been included on the architecture of hybrid excavators in the chapter related to special hybrid vehicles. Also included is a chapter providing an overview of hybrid vehicle technology, which offers a perspective on the current debate on sustainability and the environmental impact of hybrid and electric vehicle technology. Completely updated with new chapters Covers recent developments, breakthroughs, and technologies, including new drive topologies Explains HEV fundamentals and applications Offers a holistic perspective on vehicle electrification Hybrid Electric Vehicles: Principles and Applications with Practical Perspectives, Second Edition is a great resource for researchers and practitioners in the automotive industry, as well as for graduate students in automotive engineering.

Introduction to Path-integral Methods in Physics and Polymer Science Frederik W. Wiegels 1986 This monograph distills material prepared by the author for class lectures, conferences and research seminars. It fills in a much-felt gap between the older and original work by Feynman and Hibbs and the more recent and advanced volume by Schulman. After presenting an elementary account on the Wiener path integral as applied to Brownian motion, the author progresses on to the statistics of polymers and polymer entanglements. The next three chapters provide an introduction to quantum statistical physics with emphasis on the conceptual understanding of many-variable systems. A chapter on the renormalization group provides material for starting on research work. The final chapter contains an over view of the role of path integrals in recent developments in physics. A good bibliography is provided for each chapter.

Teaching Elementary Science Through Investigation and Colloquium Brenda Lansdown 1971

Statistical Power Analysis for the Behavioral Sciences Jacob Cohen 2013-05-13 Statistical Power Analysis is a nontechnical guide to power analysis in research planning that provides users of applied statistics with the tools they need for more effective analysis. The Second Edition includes: * a chapter covering power analysis in set correlation and multivariate methods; * a chapter considering effect size, psychometric reliability, and the efficacy of "qualifying" dependent variables and; * expanded power and sample size tables for multiple regression/correlation.

Conceptual Chemistry Donna Gibson 2006-07

Resources in Education 1998

Democracy and Education John Dewey 1916 John Dewey's Democracy and Education addresses the challenge of providing quality public education in a democratic society. In this classic work Dewey calls for the complete renewal of public education, arguing for the fusion of vocational and contemplative studies in education and for the necessity of universal education for the advancement of self and society. First published in 1916, Democracy and Education is regarded as the seminal work on public education by one of the most important scholars of the century.

Teaching the Nature of Science Through Process Skills Randy L. Bell 2008 Engage your students with inquiry-based lessons that help them think like scientists! "[This] book...has made such a difference in my teaching of science this school year. I have had some of the most amazing science lessons and activities with my students and I attribute this to what I learned from...[this] book... I have watched my 5th grade students go from being casual observers in science to making some amazing observations that I even missed. We enjoy our class investigations and the students ask for more!" --Alyce F. Surmann, Sembach Middle School "Teachers will relate well to the author's personal stories and specific examples given in the text, especially the ones about events in his own classroom.... like having the grasshoppers escape into the classroom!" --Andrea S. Martine, Director of Curriculum and Instruction, Warrior Run School District With Teaching the Nature of Science through Process Skills, author and science educator Randy Bell uses process skills you'll recognize, such as inference and observation, to promote an understanding of the characteristics of science knowledge. His personal stories, taken from years of teaching, set the stage for a friendly narrative that illuminates these characteristics of scientific knowledge and provides step-by-step guidance for implementing inquiry activities that help children understand such important, yet abstract, concepts. With Randy as your guide, you can better adhere to current science education standards that urge teachers to go beyond teaching science content to teach children about the practice and the nature of science in a way that engages all learners in grades three through eight. Investigate further... More than 50 ideas and activities for teaching the nature of science to help you meet content standards. A comprehensive framework to guide you in integrating the approach across the science curriculum, throughout the school year, and across the grade levels. A goldmine of reproducible resources, such as work sheets, notebook assignments, and more. Assessment guidance that helps you measure your students' nature of science understanding.

How People Learn National Research Council 2000-08-11 First released in the Spring of 1999, How People Learn has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

An Introduction to Physical Science James Shipman 2015-01-01 Consistent with previous editions of An Introduction to Physical Science, the goal of the

new Fourteenth edition is to stimulate students' interest in and gain knowledge of the physical sciences. Presenting content in such a way that students develop the critical reasoning and problem-solving skills that are needed in an ever-changing technological world, the authors emphasize fundamental concepts as they progress through the five divisions of physical sciences: physics, chemistry, astronomy, meteorology, and geology. Ideal for a non-science major's course, topics are treated both descriptively and quantitatively, providing instructors the flexibility to emphasize an approach that works best for their students. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Handbook of Research on Driving STEM Learning With Educational Technologies Ramírez-Montoya, María-Soledad 2017-02-01 Educational strategies have evolved over the years, due to research breakthroughs and the application of technology. By using the latest learning innovations, curriculum and instructional design can be enhanced and strengthened. The Handbook of Research on Driving STEM Learning With Educational Technologies is an authoritative reference source for the latest scholarly research on the implementation and use of different techniques of instruction in modern classroom settings. Featuring exhaustive coverage on a variety of topics including data literacy, student motivation, and computer-aided assessment, this resource is an essential reference publication ideally designed for academicians, researchers, and professionals seeking current research on emerging uses of technology for STEM education.

Idealism as Modernism Robert B. Pippin 1997-01-28 In this volume Robert Pippin disputes many traditional characterisations of the distinctiveness of modern philosophy.

Proceedings of the ... National Symposium on Aquifer Restoration and Ground Water Monitoring

The Human Tutorial Dialogue Project Barbara A. Fox 2020-11-26 This volume's goal is to begin to document the dialogue processes in naturally-occurring human tutoring, in the context of informing the design of intelligent tutoring systems, and of interactive systems in general. This project represents the first empirical study of human tutorial dialogue from a conversation analytic perspective -- the conversational interaction is the focus of analysis rather than larger scale techniques for teaching. It is also the first study of tutoring to make use of large quantities of carefully transcribed tutoring conversations/dialogues. The motivation for this focus comes from two sources: First, although all tutoring systems have implicit theory or theories of minute-level interaction built into them, little research has been done to form an empirical foundation for such theories. Therefore, current systems tend to be based on the designers' intuitions rather than on data. This fact almost certainly makes systems unnecessarily brittle in actual use. Second, of the small but growing collection of empirical studies of tutoring, almost all have been designed and carried out by computer scientists, whose training naturally leads them to be concerned with interaction at the level of knowledge transfer and teaching techniques. Fox's training as a linguist brings attention to the minute-by-minute details of the interaction, in particular to the processes that bring the interaction into existence and allow it to develop relatively smoothly.