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Der Übersetzungsherausgeber Stephan W. Koch lehrt Physik in Marburg und ist häufig als Gastwissenschaftler an der Universität von Arizona, Tucson/USA. Er hat in Frankfurt Physik studiert, 1979 promoviert und sich, nach Forschungsaufenthalten bei den IBM Research Labs, 1983 habilitiert. Anschließend ging er in die USA, wo er ab 1989 Full Professor an der University of Arizona in Tucson war. 1993 folgte er einem Ruf an die Uni Marburg, blieb aber bis heute Adjunct Professor in Arizona. 1997 erhielt Herr

Koch den Leibniz-Preis der Deutschen Forschungsgemeinschaft, 1999 den Max-Planck-Forschungspreis der Humboldt-Stiftung und Max-Planck-Gesellschaft. Seit mehreren Jahren ist er als Herausgeber und Berater für Fachzeitschriften aktiv. As manufacturing processes become increasingly complex, industry must rely on advanced sensor technology and process control to improve efficiency and product quality. Processes now need a variety of on-line measurements, such as film thickness, particle size, solids concentrations, and contamination detection. Industrial Process Sensors provides a coherent review of the physical principles, design, and implementation of a wide variety of in-process sensors used to control manufacturing operations. Real data from commercial installations illustrates the operation and limitations of these devices. The book begins with a review of the basic physics of sound, light, electricity, and radiation, with a focus on their role in sensor devices. The author introduces the generic sensor model and discusses the propagation of measurement errors. He goes on to describe conventional process sensors that measure temperature, pressure, level, and flow. The second half of the book focuses on more advanced topics, such as particle size measurement in slurries and emulsions, tomography and process imaging of manufacturing operations, on-line measurement of film thickness,

identification of polymer type for recycling, and characterization of reinforced polymers and composites. By exploring both theory and final implementation of sensors used to control industrial manufacturing processes, Industrial Process Sensors provides the information you need to develop solutions to a wide range of industrial measurement needs. This book arms engineers with the tools to apply key physics concepts in the field. A number of the key figures in the new edition are revised to provide a more inviting and informative treatment. The figures are broken into component parts with supporting commentary so that they can more readily see the key ideas. Material from The Flying Circus is incorporated into the chapter opener puzzlers, sample problems, examples and end-of-chapter problems to make the subject more engaging. Checkpoints enable them to check their understanding of a question with some reasoning based on the narrative or sample problem they just read. Sample Problems also demonstrate how engineers can solve problems with reasoned solutions. This book arms engineers with the tools to apply key physics concepts in the field. A number of the key figures in the new edition are revised to provide a more inviting and informative treatment. The figures are broken into component parts with supporting commentary so that they can more readily see the key ideas. Material from The Flying Circus is

incorporated into the chapter opener puzzlers, sample problems, examples and end-of-chapter problems to make the subject more engaging. Checkpoints enable them to check their understanding of a question with some reasoning based on the narrative or sample problem they just read. Sample Problems also demonstrate how engineers can solve problems with reasoned solutions. INCLUDES PARTS 1-4 PART 5 IN FUNDAMENTALS OF PHYSICS, EXTENDED This self-contained book, written by active researchers, presents up-to-date information on smart maintenance strategies for human-robot interaction (HRI) and the associated applications of novel search algorithms in a single volume, eliminating the need to consult scattered resources. Unlike other books, it addresses maintaining a smart HRI from three dimensions, namely, hardware, cyberware, and hybrid-asset management, covering problems encountered in each through a wide variety of representative examples and elaborated illustrations. Further, the diverse mathematical models and intelligent systems constructions make the book highly practical. It enables readers interested in maintenance, robotics, and intelligent systems but perplexed by myriads of interrelated issues to grasp basic methodologies. At the same time, the referenced literature can be used as a roadmap for conducting deeper researches. Das Halliday-

Lehrbuch Physik für natur- und ingenieurwissenschaftliche Studiengänge bietet einen Überblick über den Stoff typischer Experimentalphysik-Vorlesungen. Dementsprechend wurde der Stoff auf die Bedürfnisse dieser Studierenden zugeschnitten und gestrafft. Außerdem stellt jedes Kapitel einen ausgeprägten Praxisbezug her, um die Anwendung physikalischer Konzepte zu illustrieren. Für die dritte Auflage wurden die Kapitel nicht nur überarbeitet, sondern didaktisch neu strukturiert: die Lerninhalte sind nun in Modulen organisiert, wobei jede Einheit die Lernziele explizit aufführt und die Schlüsselkonzepte zusammenfasst. So können Studentinnen und Studenten zielgerichtet lernen und den Lernerfolg nach der Lektüre selbst überprüfen. Das Übungsbuch hilft bei der Durchdringung des Stoffs der einführenden Experimentalphysik-Vorlesungen für Nebenfachstudierende. Es enthält mehr als 750 Aufgaben mit ausführlichen Lösungen aus allen Kapiteln des Lehrbuchs. Dabei stammen die Aufgaben aus allen Themenbereichen der Experimentalphysik und reichen von Standardaufgaben, die jeder können muss, bis hin zu weiterführenden Aufgaben für Fortgeschrittene. Mehr Mathematik, mehr moderne Physik - das charakterisiert die Neuauflage des 'Halliday'. Hauptfachstudenten der Physik finden in ihm den idealen Partner für das Studium.

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