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This book "Engineering Physics" is prepared specially for I and II Semester students of B.E./B.Tech. Course of Visvesvaraya Technological University. The subject matter has been methodically and systematically developed from the fundamental experimental physics. This text book has been written keeping in mind the difficulties of the students. KEY FEATURES • Number of solved problems for practice • Comprehensive text with lucid language • Revision questions, chapter end summary and list of formulae for better recap • Model Question papers for better insight into the subject matter

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Important physical outcomes and rules. The appendices are chosen in such a way that all basic simple conversion factors, basic rules and formulas, basic rules of differentiation and integration can be viewed quickly, helping student to understand the elementary mathematical steps used for solving the examples and exercises. Instructors teaching from this textbook will be able to gain online access to the solutions manual which provides step-by-step solutions to all exercises contained in the book. The solutions manual also contains many tips, coloured illustrations, and explanations on how the solutions were derived.

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Crystal and comprehensive introduction to the physical and engineering principles of laser operation and design. Simple explanations, based throughout on key underlying concepts, lead the reader logically from the basics of laser action to advanced topics in laser physics and engineering. Much new material has been added to this second edition, especially in the areas of solid-state lasers, semiconductor lasers, and laser cavities. This 2004 edition contains a new chapter on laser operation above threshold, including extensive discussion of laser amplifiers. The clear explanations, worked examples, and many homework problems will make this book invaluable to undergraduate and first-year

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Graduate students in science and engineering taking courses on lasers. The summaries of key types of lasers, the use of many unique theoretical descriptions, and the extensive bibliography will also make this a valuable reference work for researchers.

Klaus von Klitzing Max-Planck-
Institut für Festkörperforschung, Heisenbergstraße
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Already many Cassandras have prematurely announced the end of the silicon roadmap and yet, conventional semiconductor-based transistors have been continuously shrinking at a pace which has brought us to nowadays cheap and powerful microelectronics. However it is clear that the

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Traditional scaling laws cannot be applied if unwanted tunnel phenomena or ballistic transport dominate the device properties. It is generally expected, that a combination of silicon CMOS devices with molecular structure will dominate the field of nanoelectronics in 20 years. The visionary ideas of atomic- or molecular-scale electronics already date back thirty years but only recently advanced nanotechnology, including e.g. scanning tunneling methods and mechanically controllable break junctions, have enabled to make distinct progress in this direction. On the level of fundamental research, state-of-the-art techniques allow to manipulate, image and probe charge transport through uni-molecular systems

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Controlled way. Hence, molecular electronics is reaching a stage of trustable and reproducible experiments. This has led to a variety of physical and chemical phenomena recently observed for charge currents owing through molecular junctions, posing new challenges to theory. As a result a still increasing number of open questions determines the future agenda in this field.

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Chapter divided into smaller parts and subheading are provided to make the reading a pleasant journey

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