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This latest Fifth Assessment Report of the IPCC will again form the standard reference for all those concerned with climate change and its consequences.

An authorised reissue of the long out of print classic textbook, Advanced Calculus by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

The recent revolution in differential topology related to the discovery of non-standard ("exotic") smoothness structures on topologically trivial manifolds such as R4 suggests many exciting opportunities for applications of potentially deep importance for the spacetime models of theoretical physics, especially general relativity. This rich panoply of new differentiable structures lies in the previously unexplored region between topology and geometry. Just as physical geometry was thought to be trivial before Einstein, physicists have continued to work under the tacit — but now shown to be incorrect — assumption that differentiability is uniquely determined by topology for simple four--manifolds. Since diffeomorphisms are the mathematical models for physical coordinate transformations, Einstein's relativity principle requires that these models be physically inequivalent. This book provides an introductory survey of some of the relevant mathematics and presents preliminary results and suggestions for further applications to spacetime models.

"Offers overview of applications of geosciences to sustainable development and geophilanthropic efforts worldwide, and offers advice to guide creation of development projects. Primacy of geologic input to all development activities is highlighted along with problems that are encountered and environmental issues that must be addressed" --

With contributions by numerous experts

Number 6 includes cumulative main and added entry index for the monographs listed in that year.

Physics for the IB Diploma, Sixth edition, covers in full the requirements of the IB syllabus for Physics for first examination in 2016. This Exam Preparation Guide contains up-to-date material matching the 2016 IB Diploma syllabus and offers support for students as they prepare for their IB Diploma Physics exams. The book is packed full of Model Answers, Annotated Exemplar Answers and Hints to help students hone their revision and exam technique and avoid common mistakes. These features have been specifically designed to help students apply their knowledge in exams. The book also contains lots of questions for students to use to track their progress. The book has been written in an engaging and student friendly tone making it perfect for international learners.

1. 100% Based on NCERT Guidelines. 2. Important questions have been include chapterwise and unitwise. 3. Previous year questions with answers of board examinations have been included. 4. Solved Model Test Papers for board examination preparation for the current year have been included. 1.Electric Charges and Electric Fields, 2. Electro Static Potential and Capacitance, 3 .Electricity Current, 4. Moving Charges and Magnetism, 5. Magnetism, 6. Electro Magnetic Induction, 7. Alternating Current, 8. Electro Magnetic waves, 9. Ray Optics, 10.Wave Optics, 11. Radiation and dual Nature of Matter, 12. Atoms, 13. Nucles, 14. Semiconductor Electronics :Materials Devices and Sample Circuits, 15. Communication System, Model paper :Set I-IV (with OMR Sheet) Board Examination paper (with OMR sheet)(BSEB and CBSE)