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this textbook available in two volumes has been developed from a course taught at harvard over the last decade the course covers principally the theory and physical applications of linear algebra and of the calculus of several variables particularly the exterior calculus the authors adopt the spiral method of teaching covering the same topic several times at increasing levels of sophistication and range of application thus the reader develops a deep intuitive understanding of the subject as a whole and an appreciation of the natural progression of ideas topics covered include many items previously dealt with at a much more advanced level such as algebraic topology introduced via the analysis of electrical networks exterior calculus lie derivatives and star operators which are applied to maxwell s equations and optics this then is a text which breaks new ground in presenting and applying sophisticated mathematics in an elementary setting any student interpreted in the widest sense with an interest in physics and mathematics will gain from its study

henry o pollak chairman of the international program committee bell laboratories murray hill new jersey usa the fourth international congress on mathematics education was held in berkeley california usa august 10 16 1980 previous congresses were held in lyons in 1969 exeter in 1972 and karlsruhe in 1976 attendance at berkeley was about 1800 full and 500 associate members from about 90 countries at least half of these come from outside of north america about 450 persons participated in the program either as speakers or as presiders approximately 40 percent of these came from the u s or canada there were four plenary addresses they were delivered by hans freudenthal on major problems of mathematics education hermina sinclair on the relationship

between the learning of language and of mathematics seymour papert on the computer as carrier of mathematical culture and hua loo keng on popularising and applying mathematical methods gearge polya was the honorary president of the congress illness prevented his planned attendance but he sent a brief presentation entitled mathematics improves the mind there was a full program of speakers panelists debates miniconferences and meetings of working and study groups in addition 18 major projects from around the world were invited to make presentations and various groups representing special areas of concern had the opportunity to meet and to plan their future activities

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