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   Nota di contenuto   Parallel computation and optimisation a series of five lectures (July
                       1987) -- Solution of sparse systems of equations on multiprocessor
                       architectures -- Level-index arithmetic: An introductory survey --
                       Some aspects of floating point computation -- Some gradient
                       superconvergence results in the finite element method -- Programme
                       of the meeting.

   Sommario/riassunto Each week of this three week meeting was a self-contained event,
                       although each had the same underlying theme - the effect of parallel
                       processing on numerical analysis. Each week provided the opportunity
                       for intensive study to broaden participants' research interests or
                       deepen their understanding of topics of which they already had some
                       knowledge. There was also the opportunity for continuing individual
                       research in the stimulating environment created by the presence of
                       several experts of international stature. This volume contains lecture
                       notes for most of the major courses of lectures presented at the
                       meeting; they cover topics in parallel algorithms for large sparse linear
                       systems and optimization, an introductory survey of level-index
                       arithmetic and superconvergence in the finite element method.