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Nota di contenuto	Survey of Modular Functions of One Variable -- Complex Multiplication -- Modular Forms of Half Integral Weight -- The Basis Problem for Modular Forms and the Traces of the Hecke Operators -- Class-Numbers of Complex Quadratic Fields -- Some Calculations of Modular Relations -- On the $A_q(?) ? B_q(?)$ Conjecture.
Sommario/riassunto	An international Summer School on: "Modular functions of one variable and arithmetical applications" took place at RUCA, Antwerp University, from July 17 to - gust 3, 1972. This book is the first volume (in a series of four) of the Proceedings of the Summer School. It includes the basic course given by A. Ogg, and several other papers with a strong analyt~c flavour. Volume 2 contains the courses of R. P. Langlands (l-adic representations) and P. Deligne (modular schemes - representations of GL) and papers on related topics. 2 Volume 3 is devoted to p-adic properties of modular forms and applications to l-adic representations and zeta functions. Volume 4 collects various material on elliptic curves, includ- ing numerical tables. The School was a NATO Advanced Study Institute, and the orga- nizers want to thank NATO for its major subvention. Further support, in various forms, was received from IBM Belgium, the Coca-Cola Co. of Belgium, Rank Xerox Belgium, the Fort Food Co. of Belgium, and NSF Washington, D.C. We extend our warm- est thanks to all of them, as well as to RUCA and the local staff (not forgetting hostesses and secretaries!) who did such an excellent job.

