Weyl, Hermann

*Invariants.*


Invariants, covariants, and related notions are discussed from the point of view of modern theory of groups and representations. A short historical introduction is also given.

Hilbert’s $\omega$-process and its relationship to Cayley’s algebraical $\Omega$-process and to Hurwitz’s and Weyl’s analytical and Haar’s set-theoretical integration processes are discussed, and connections with the theories of almost periodicity hinted. The rôles of the classical simple Lie groups and of the allied permutation groups are discussed.

Finally the place of the entire subject in modern abstract algebra, as well as its further possibilities under this aspect, is expounded.

_J. von Neumann_

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