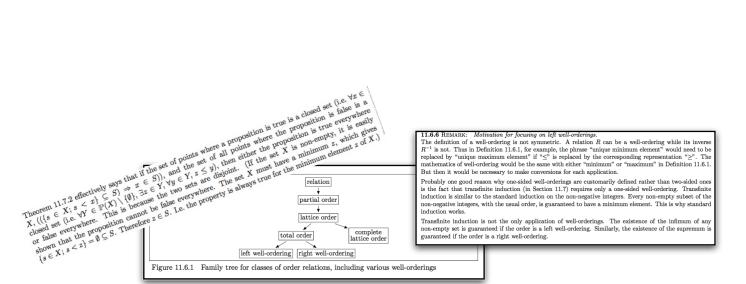
The kinds of assertion statements employed in various kinds of deduction systems may be very roughly characterised as follows.

- (1) **Hilbert style**. Assertions of the form " $\vdash \beta$ " for some logical formula β .
- (2) Gentzen style. Conditional assertions are the "elementary statements" of the system.
- (2.1) Natural deduction. Assertions of the form " $\alpha_1, \alpha_2, \dots \alpha_m \vdash \beta$ " for logical formulas α_i and β , for $i \in \mathbb{N}_m$, where $m \in \mathbb{Z}_0^+$
- (2.2) Sequent calculus. Assertions of the form " $\alpha_1, \, \alpha_2, \, \dots \, \alpha_m \, \vdash \, \beta_1, \, \beta_2, \, \dots \, \beta_n$ " for logical formulas α_i and β_j , for $i \in \mathbb{N}_m$ and $j \in \mathbb{N}_n$, where $m, n \in \mathbb{Z}_0^+$.



Transfinite induction as a means of proof and transfinite recursion as a means of definition are now a commonplace in the toolkit of any pure mathematician: textbooks of classical analysis such as Hobson 1921 contain frequent illustrations.

THE LOGIC OF THE DIAGONAL ARGUMENT Many mathematicians aggressively maintain that there can be no large mathematicians aggressively maintain that there can be no maintain that there can be no large maintain that there can be not large maintain that the not large maint doubt of the validity of this proof, whereas others do not admit it. I personally cannot see an iota of appeal in this proof if this is indeed not do the things that it is obviously expected to do if this is indeed a proof.

a proof.

GRADUS PARNASSUM. MANUDUCTIO

COMPOSITIONEM MUSICÆ REGULAREM, Methodo novâ, ac certâ, nondum antè tam exacto ordine in lucem edita :

Elaborata à

JOANNE JOSEPHO FUX,

All (dually) nonisomorphic lattices with ≤ 7 elements

