

B i b l i o g r a p h y

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- [2] Henkin, L.: The completeness of the first order functional calculus. J. Symbolic Logic 14 (1949), 145 - 158.
- [3] Henkin, L.: Completeness in the theory of types. J. Symbolic Logic 15 (1950), 81-91.
- [4] Hermes, H.: Einführung in die mathematische Logik (<sup>2</sup>1969).
- [5] Hilbert, D. - P. Bernays: Grundlagen der Mathematik I (1934, <sup>2</sup>1968), II (1939).
- [6] Rosser, B.: On the consistency of Quine's "New foundations for mathematical logic". J. Symbolic Logic 4 (1939), 15-24.
- [7] Whitehead, A.N. - B. Russell: Principia Mathematica I, II, III (1910-13).

Also compare

- [8] Carnap, R.: On the use of Hilbert's  $\varepsilon$ -operator in scientific theories. Essays on the Foundations of Mathematics dedicated to Prof. A. A. Fraenkel on his 70th anniversary. Magnes Press, The Hebrew University, Jerusalem 1961 (including a bibliography).

Index of Symbols

$f$ function symbol	3	$\alpha, \beta, \dots$ formula	3
$x, y \dots$ subject symbol (variable)	3	or term	5
$t, s, \dots$ term	3, 5	$\alpha^\varphi$	27
$\bar{s}$ class of terms	44	$\alpha_x^t$	30
$x^\varphi$	27	$\alpha_x^t$	30
$\bar{x}$ class of terms	44	$\epsilon$ an object for which	3
$P$ predicate symbol	3	$\pi$ subset of $\omega$	1, <u>6</u>
$R$ rank	18	$\rho$ subset of $\omega$	46
$\alpha$ choice operator	4, 6	$\omega$ individual domain	3, 6
$i$ identity function	6	<u>Esubst</u> elementary substitution	18
$n$ negation function	6	<u>Free</u> free occurrence of a variable	18
$\uparrow$ conjunction function	6	<u>Mod</u> model	4
$r, y$ element of an individual domain	3	$\vdash$ derivable	23
$\mathfrak{A}$ set of attributes	4	$\vdash_1$ 1-derivable	23
$\mathfrak{B}$ semantic basis	3, 6	$\models$ consequence	4, 7
$\mathcal{F}$ set of functions	4, 6	$\models_1$ 1-consequence	7
$\mathfrak{I}$ interpretation	4, 6	$\neg$ not	3, 5
$\mathfrak{I}_x^r$ interpretation	4	$\wedge$ and	3, 5
$\mathfrak{I}(\mathfrak{M})$	7	$\leftrightarrow$ equivalent	40
$\mathfrak{M}$ set of formulas (terms)	4, 7	$=$ equals	3, 5
$\mathfrak{M}^\varphi$	27	$\equiv$ identity of expressions	8
$\mathfrak{M}^*$	42		

General Index

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semantic basis for term logic	1, <u>6</u>		