

kérdések
kínaiul és
angolul

K.L. előadása-
hoz

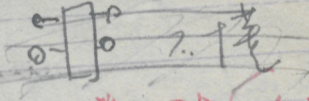
dátum és aláírás
nélkül.

1959

富子海的作用

meaning of fig. 3 ~~long~~

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.



11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

继电器通路为起至 C ，则 $\bar{C}$ 为何构成？

布氏逻辑的表达式是否一致？

析取或析取

If C is the proposition ~~relating~~ corresponding to the conducting path of the relay, then how is $\bar{C}$ composed? Are the expressions of conjunction and

disjunction normal forms of Boole function
consistent?

if the function is not consistent
then it is not a disjunction normal form

1. How is a logical machine used to analyze and design various kinds of relay contact circuits?
2. What do the questions that can be solved by a logical machine consist of? (e.g. constructing a train time-table.)
3. If we put in the axiom system in advance, is it possible through the means of a logical machine to get some new results that are unknown to mankind?

① ^{for the evening} 逻辑机怎样用来“分析和设计各种继电器接触电路”？② 逻辑机是否可以解决
的实际问题大概包括哪些方面？（如编火车时刻表、飞机起飞降落的时间表、… 大致
情况如何？）③ 预先放入公理系，通过逻辑机的工作是否能得到一些人预先
尚未知道的新的结论？

7⁺ I feel interested in the statement that the human
brain system is like a very good logical machine. I
hope that if possible, you will ~~talk about~~ (the connections
between the theories of biology and engineering. [give your own interpretations on]

李永明讲的“人的脑神经系统是一个极好的逻辑机”，感利具取。希望

李永明讲些关于用数理逻辑的方法把生物字书工程字上的一些知识编成系统

来的介绍。

(此即李永明刚才所说的内容)

Svoboda

逻辑设计各位同学要求:

What we hope to know during the discussion on logical ~~design~~ design at the seminar.

1. 请介绍 ~~逻辑设计~~ 苏霍德所设计的通用逻辑设计机

Please give an introductory account of Svoboda's computer

2. 请解释程序自动机如何在逻辑设计中应用

(without delay)

Please explain about the relationship between $\pi\pi$ and mathematical logic (?)

3. 苏霍德逻辑机的实际应用

The application of Szeged's logical machine in practice.

4. 目前各国都在提高计算机的速度与能力, 请介绍如何提高速度的方法。

Tell us the methods of increasing the speed of computers, please.

5. 请介绍逻辑设计工作内容, 发展前景, 难度等。

↓
请介绍逻辑设计(形式^{内容})(报告、提纲、 Σ 报告、报告等,)

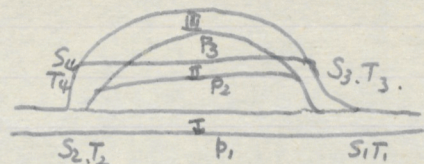
Please tell us the working contents (conditions) of logical design, its development & perspective. (in Hungary and also in other countries)

What should be the form of ^{this} discession?

Should it be conducted in the same way? namely, they put forth questions & Professor Kalmar answers them.

Or should some of the comrades deliver a report? If so, tell them what books to read, please.

1. 关于火车站问题:



其中 S, T 是代表什么. 請再講一下. ~~是否~~ S 这个系数是否可以不要它.

2. 如果有两列火车同时反向分别由 S_1, S_2 开进车站, 其公式应如何表达?

謝銘培.

Suppose two trains enter the station simultaneously then how will the formulae be expressed?
 ↘ in opposite directions

1. What kind of knowledge should we have in ^{the way of} mathematics & engineering technique if we want to master the theory of cybernetics.

2. Please give an introduction of the key points of cybernetics.

3. How to turn the problems in connection with the automatic cybernetics in engineering works into the problems of mathematics. Please

Please give ^{some} examples (it is better to use examples connected with rocket, satellite etc.)

4. ~~the~~ what problems do the development of cybernetics & the direction of its research present for the development of mathematics?

which problems remain ~~as~~ unsettled?

What is the ~~proper~~ prospect of the development of biological cybernetics?

5. How to study ~~to~~ cybernetics
& what to do ~~in~~ under
the present circumstances?

cybernetics

20 10 10

10 10 10

10 10 10

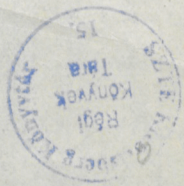
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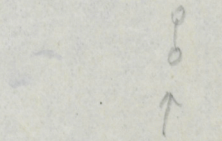
Whether a proposition is true or false depends on time. Then is it possible to express the dependence in the logical formulae? If possible, how shall we express it? If not, how to express the dependence in a logical formulae?

1. 命题的真假依赖于时间。那末在逻辑公式中是否可能表示出依赖性，

若可能，怎样表示法？若不可能，怎样在逻辑公式中表示依赖性？



	AAB	AVB	$A \odot B$	$A \rightarrow B$	$A \leftrightarrow B$
①					
①=②					
②					



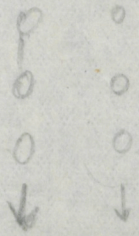
$$(A \odot B) \oplus (A \vee B) = 1$$

$A=1, B=0$

- ①和②仅位置不同，线路是一样的。③是另一种形式。
- AAB和AVB是否比你学的简单呢？
- 这三种路都对吗？
- 逻辑机（总做即学本书有何用途）

俞仲銘

Ju Chung-ming



8th

Saturday morning discussion



1. 我们是要掌握控制论，在电子以及工程技术上必须具备哪些知识？
2. 请介绍控制论的主要内容。
3. 如何把工程中的自动控制理论应用到经济系统或社会系统，请举例说明（例子最好用火箭，卫星……等）
4. 控制论的发展概况，展望未来，它对电子的发展主要找出什么问题，那些还没有解决的？生物控制的发展前途如何？
5. 请找出在我們目前的情况下，如何进行控制论社会工作的意见。



1. 命题演算和谓词演算有何区别? 为什么要有这种区别? 请举谓词演算的例子.
What is the difference between sentential calculus and predicate calculus? why?
please take an example about predicate calculus!

2. 数理逻辑和一般逻辑的主要区别? 它们之间的关系?
essential What is the difference between the mathematical logic and the general logic? And what is their relation?

3. 请再说明 $\vee$, $\oplus$ 的区别. 请举一例子说明推演中前项不同的. 而其结果为其.
What is the difference between $\vee$ and $\oplus$? please take an example to express give us

4. 如何证明公理系统的一致性? 有没有一般的证明方法? 有没有绝对的一致?
How to prove the consistency of the theory of the axiom system? Are there any general methods? Is there an absolute consistency?

5. 如何说明微分算子产生后, 对数理逻辑的生长提出了要求, 而促进了数理逻辑. 请说明.
Please explain how ~~the~~ differential calculus since it came into being, stimulated the growth of mathematical logic & further developed it. Give an example.

6. 请把 J. Von Neumann 的证明方法告诉我.
Please tell us about the method of J. Von Neumann in a more concrete way.

7. 请叙述一个开关图的作用的设计.
Please give us an account of the mechanical link, (?)

8. 桥接路的逻辑公式表示法如何? 它除了能用合取, 析取表示外, 是否还可以用一符号表示?
How shall we express the bridge circuit of the logical formula?
Is it possible to express it by means of conjunction and disjunction?
表示? 一般来说由演算“否定”及“析取”能表示所有的逻辑. 那末作为最基本的

逻辑为什么还有其它符号如“合取”, “if - then”, “if and only if”?

8. (continued)
Generally speaking, it is possible to express all our operations by means of “negation” and “disjunction”. Why are the other signs necessary (such as “if - then”, “if and only if”) in fundamental logic?