

Algebraic Structures Applied to Quantum Fields Representation

Using Haskell to Reason and Verify Models

Werner Heisemberg 01.jan.2022 Theoretical Physics Modelling Congress

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Lists

Berlin Leipzig Hannover Dresden Freiburg im Breisgau München Heidelberg Köln Köningsberg und Praga **Hamburg**

Is Algebraic Graph Knowledge Possible?

Research has been conducted in order to evaluate the possibility of reaching meaningful knowledge from Algebraic Graph transformations.

• Model Cheking and theorem prooving are viable paths.

When the neet to make strong assertions becomes inevitable:

- This is the first way: **outstanding assertion**!
- Even greater impact comes from: hilight text!

^{*}Note: This is a very long footnote line intended to test the layout of two.

H1

H2

H3

H4

H5

H6

- This is a fragment o normal text written here in order to exemplify the use of several featrues in CSS.
- This is a fragment o normal text written here in order to exemplify the use of several featrues in CSS.
 - This is one feature
 - This is another subjetc.

Lists

- 1. One
- 2. Two
- 3. Three
 - i. abc
 - ii. def
- 4. End of list

Code: Haskell code fragment.

Tables

Column A	Column B	Column C	Column D
A1	B1	C1	D1
A2	B2	C2	D2
A3	В3	C3	D3

Table: Exemple of use of tables.

LaTeX Equations

$$rac{1}{c^2}rac{\partial^2\psi}{\partial t^2}=
abla^2\circ\psi$$

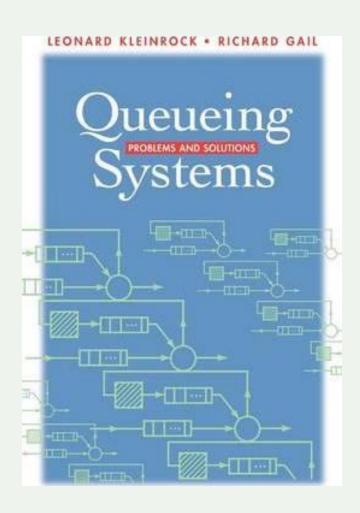
$$abla extbf{x} extbf{E} = -rac{\partial extbf{B}}{\partial t}$$

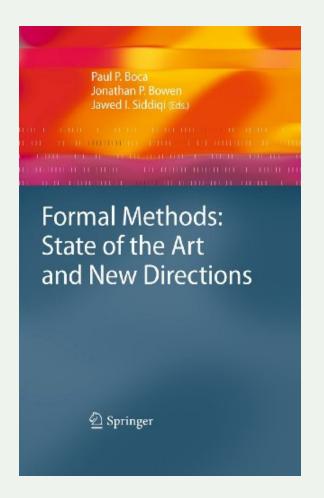
$$abla^2 \mathbf{E} = \mu \epsilon rac{\partial^2 \mathbf{E}}{\partial t^2}$$

$$c = \sqrt{\frac{1}{\mu\epsilon}}$$

Formulae: Exemples of use of LaTeX formulas.

Images in Two Columns





Images in Two Columns

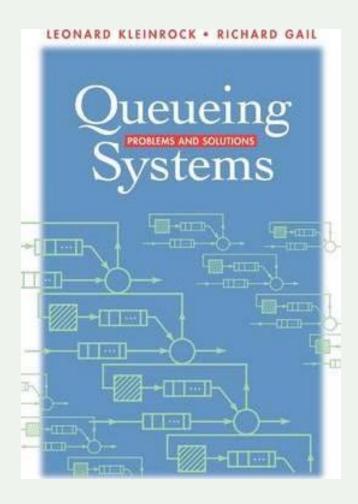


Figure: Kleinrock, Gail (1979).

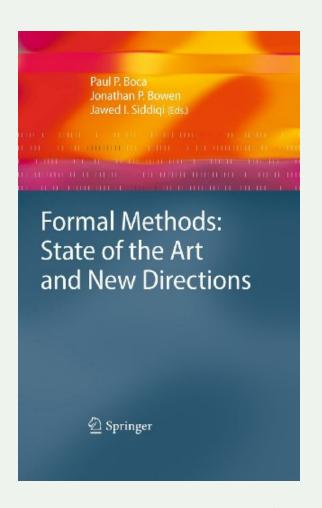


Figure: Springer Verlag (1979).

Image and text

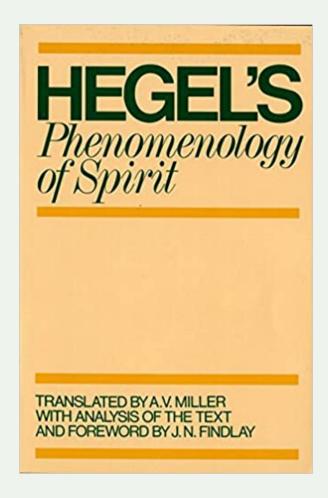


Figure: Oxford edition (1979).

Hegel's Phenomenology

The book was originally entitled "Phänomenologie des Geistes" by its author, G.W.F. Hegel.

- Published in 1807, marked a significant development in German idealism after Kant.
- In this book Hegel develops his concepts of dialectic.

Price at Amazon: \$ 17.83

"There is an increasing demand of current information systems to incorporate the use of a higher degree of formalism in the development process. Formal Methods consist of a set of tools and techniques based on mathematical model and formal logic that are used to specify and verify requirements and designs for hardware and software systems."

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Transition Slide

References

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