

Elektrotechnik-Elektronik-Informationstechnik

EEI KOLLOQUIUM

The construction and impact of chemical reality

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The connexion between structural formulae and modern chemistry, or actually the modern world to a large extent, can't be overestimated. Structural formulae separate chemistry from alchemy and the reason for this is access to information about the structure and mechanisms of matter. In a sense the evolution to modern chemistry was actually a task of semiotics, long before a theory of signs was established. But still structural formulae do largely fail to provide access to molecular properties, leading to the apparent failure of chemistry in prediction. We suggest that a comprehensive information-aesthetic treatment of chemistry can be both a tool of academic scientific progress and a way to deeply digitalise and robotise chemical industries.