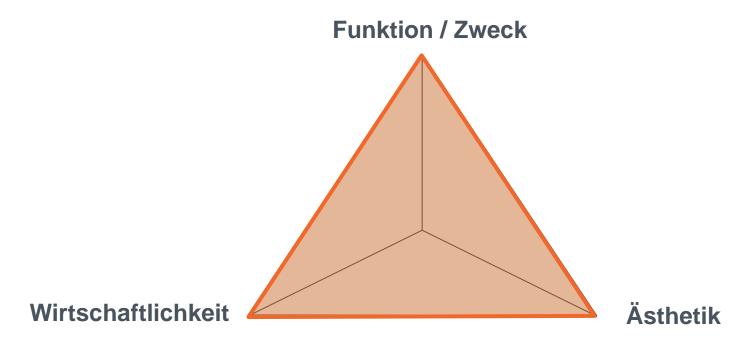


## FORMBILDUNG IM BRÜCKENBAU – ÜBER DIE WAHRNEHMUNGSPSYCHOLOGIE ZUR INGENIEURSDISZIPLIN









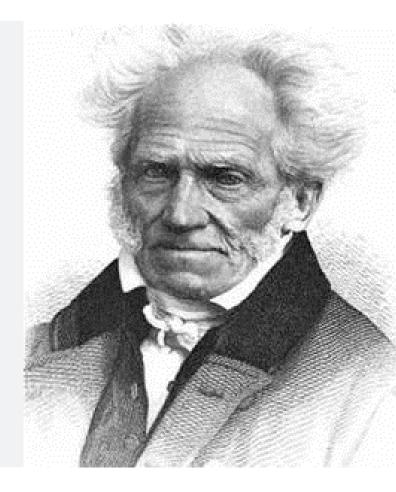


1. FORMBILDUNG IST AUFGABE DES INGENIEURS

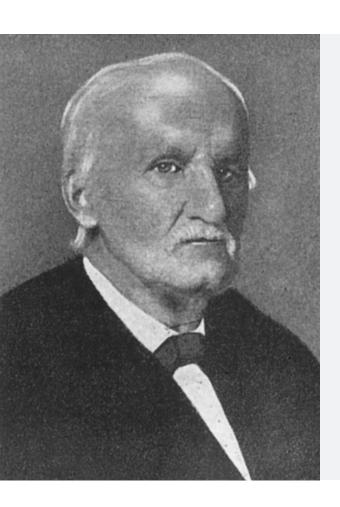


» Der alleinige ästhetische Stoff der schönen Architektur ist der Kampf zwischen Schwere und Starrheit «

(Arthur Schopenhauer, 1819)







» Die wahre Aufgabe ist vielmehr der freie **ästhetische Schein** einer Überwindung der **Schwere** und der **Zerbrechlichkeit** des Materials in sich selbst. «

(Reinhard Baumeister, 1866)



» ... das der optische und ästhetische Eindruck, den wir von geometrischen Formen gewinnen ... ihre gemeinsame Wurzel haben in Vorstellungen von mechanischen Thätigkeiten «

(Theodor Lipps, 1897)



Verlässlichkeit auf allen Wegen





»... es liegt im Menschen beim Wahrnehmen bestimmter Formen die Neigung zum Ablesen des Vorgangs Tragen und Lasten «

(Axel Seyler, 2003)

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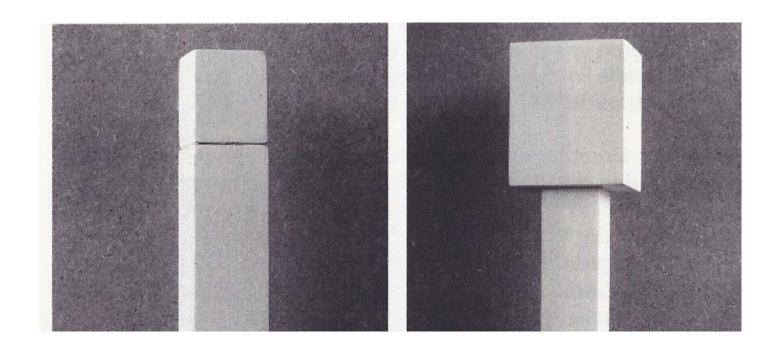


Schwere Zerbrechlichkeit

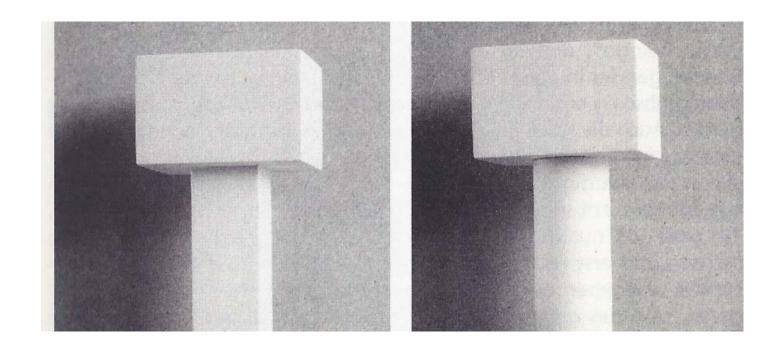
Schwere Starrheit

Lasten Tragen

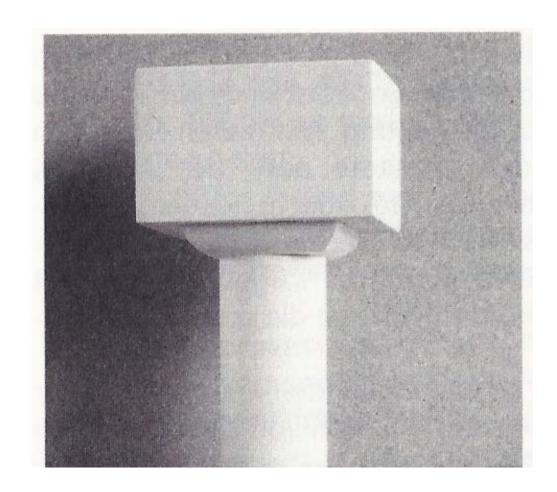














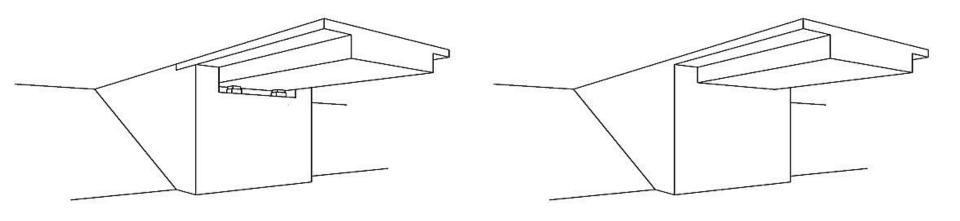


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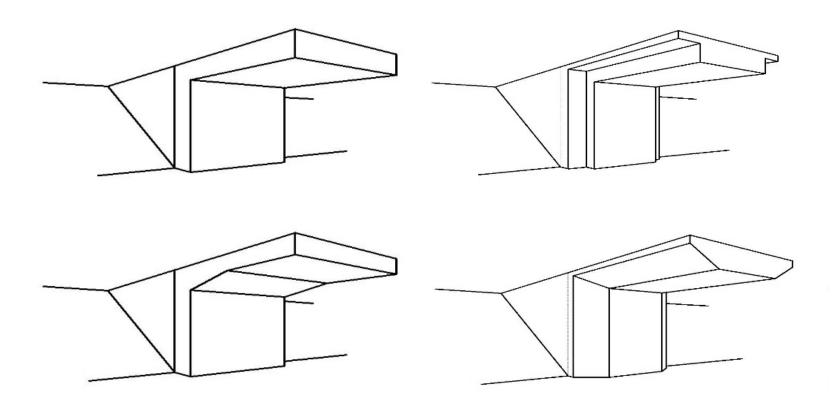


## 2. FORMBILDUNG MUSS EINER LOGIK FOLGEN

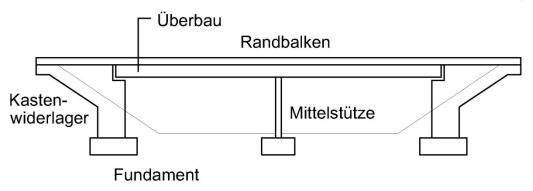


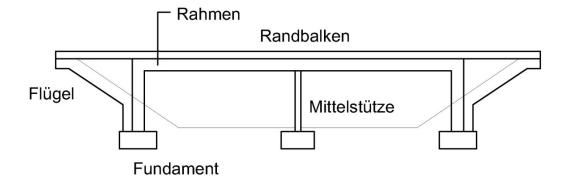


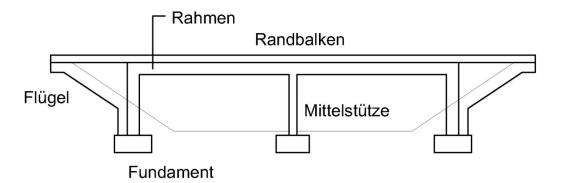




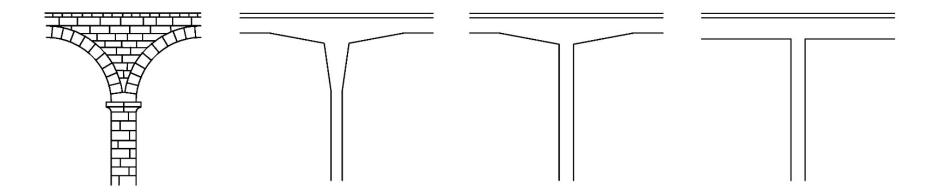






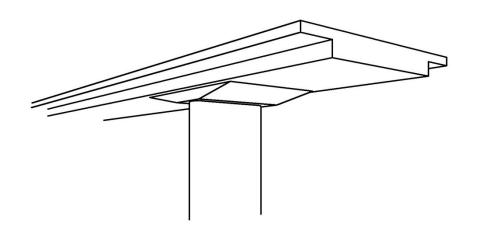


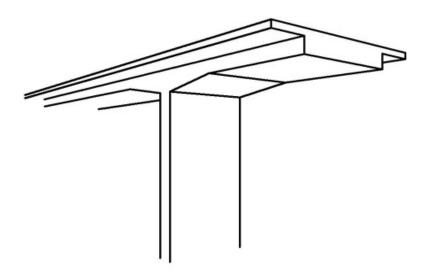




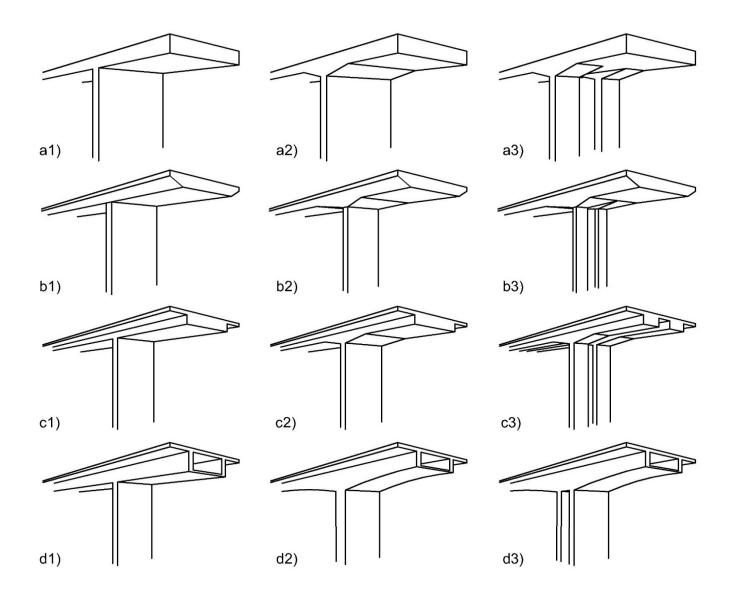




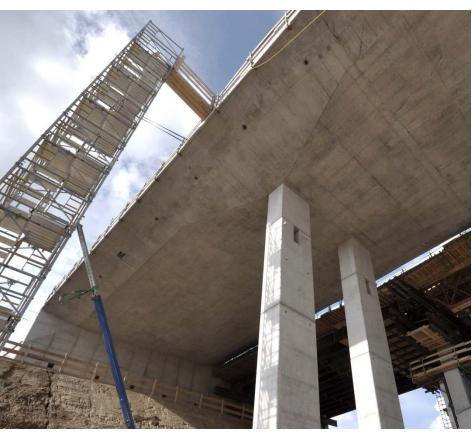








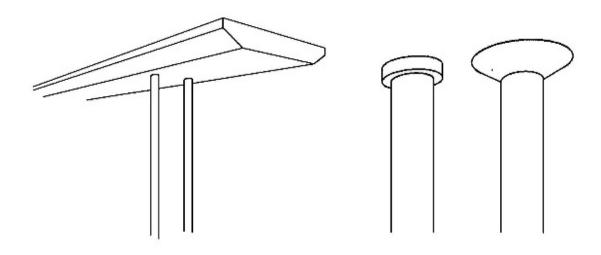








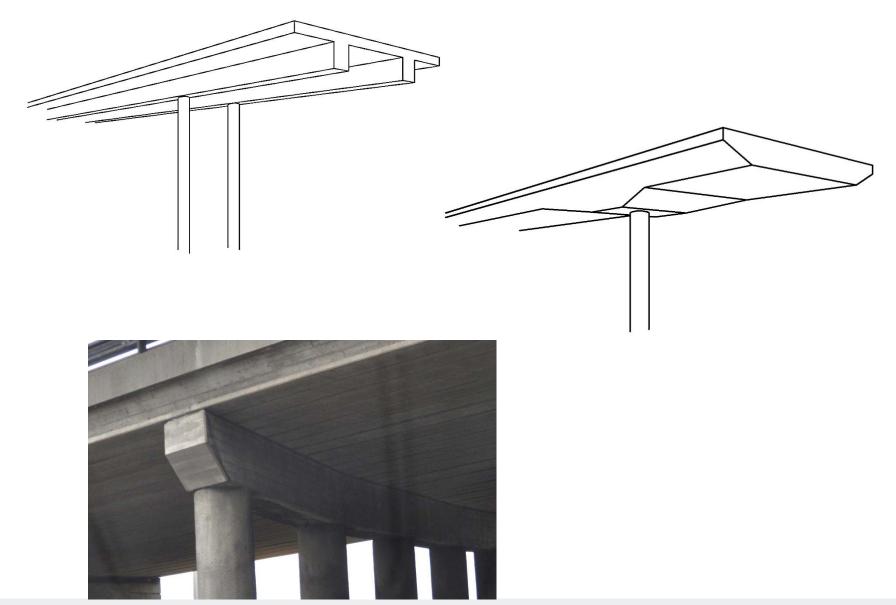




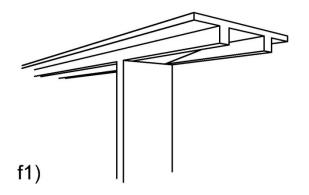


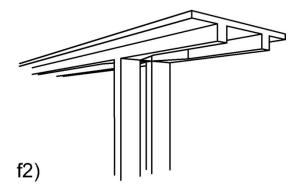


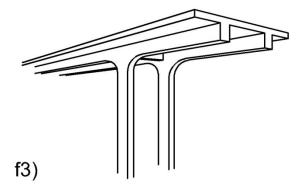














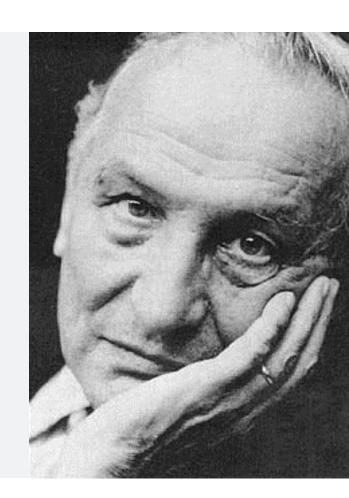
3. FORMBILDUNG ALS KREATIVER SPIELRAUM



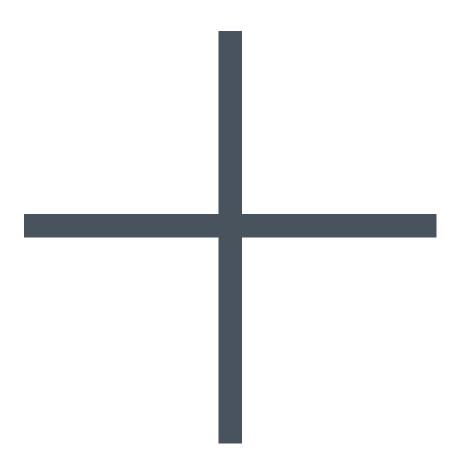


» Das Seherlebnis ist dynamisch «

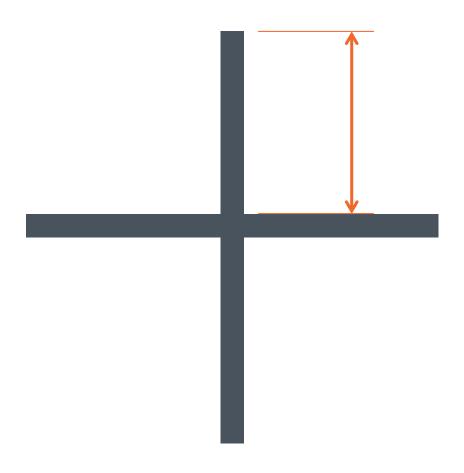
(Rudolf Arnheim, 1954)



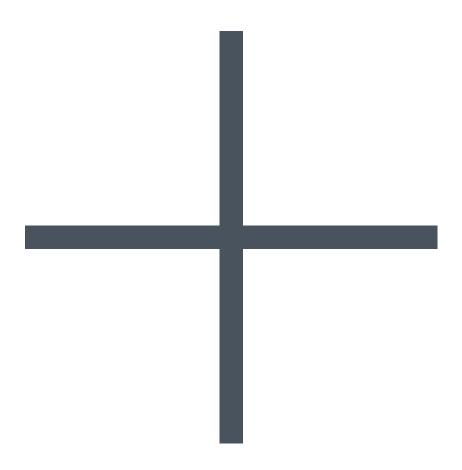




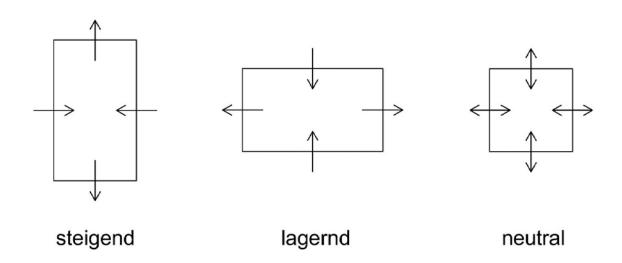


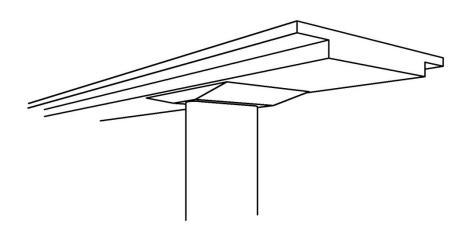




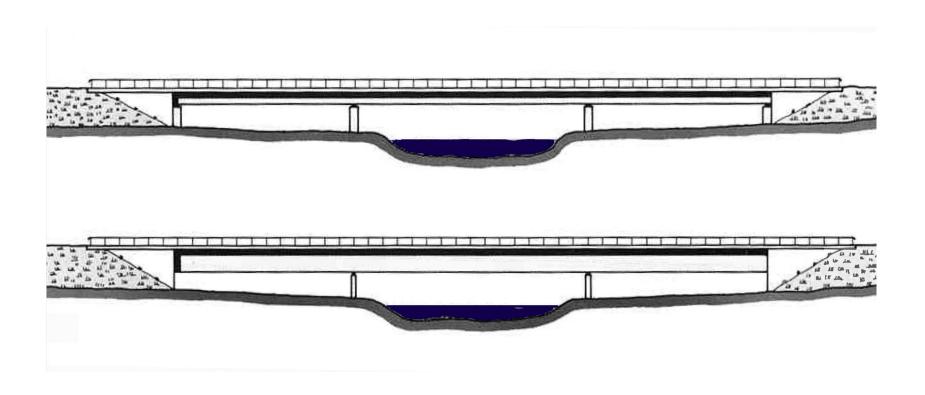










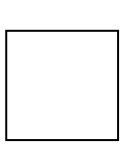


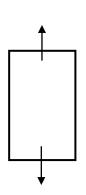






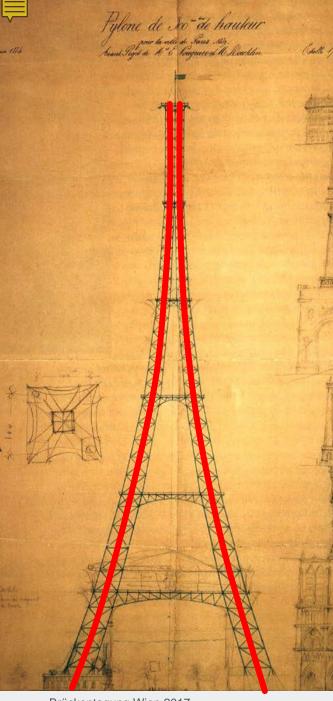








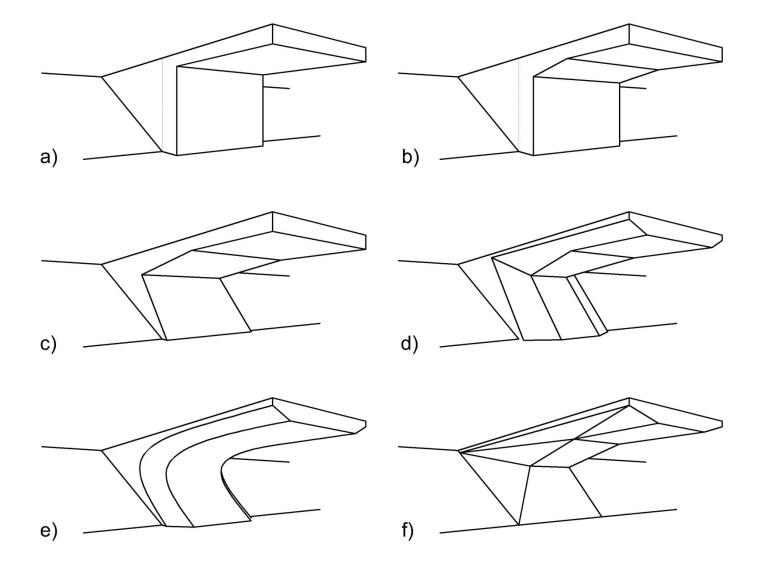




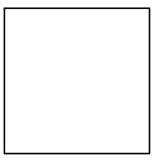


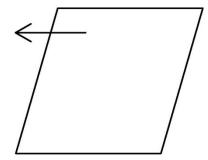
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**FAZIT:** 

**FAKT:** FORMBILDUNG IST AUFGABE DES INGENIEURS

**PFLICHT:** FORMBILDUNG MUSS EINER LOGIK FOLGEN

KÜR: FORMBILDUNG ALS KREATIVER SPIELRAUM

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