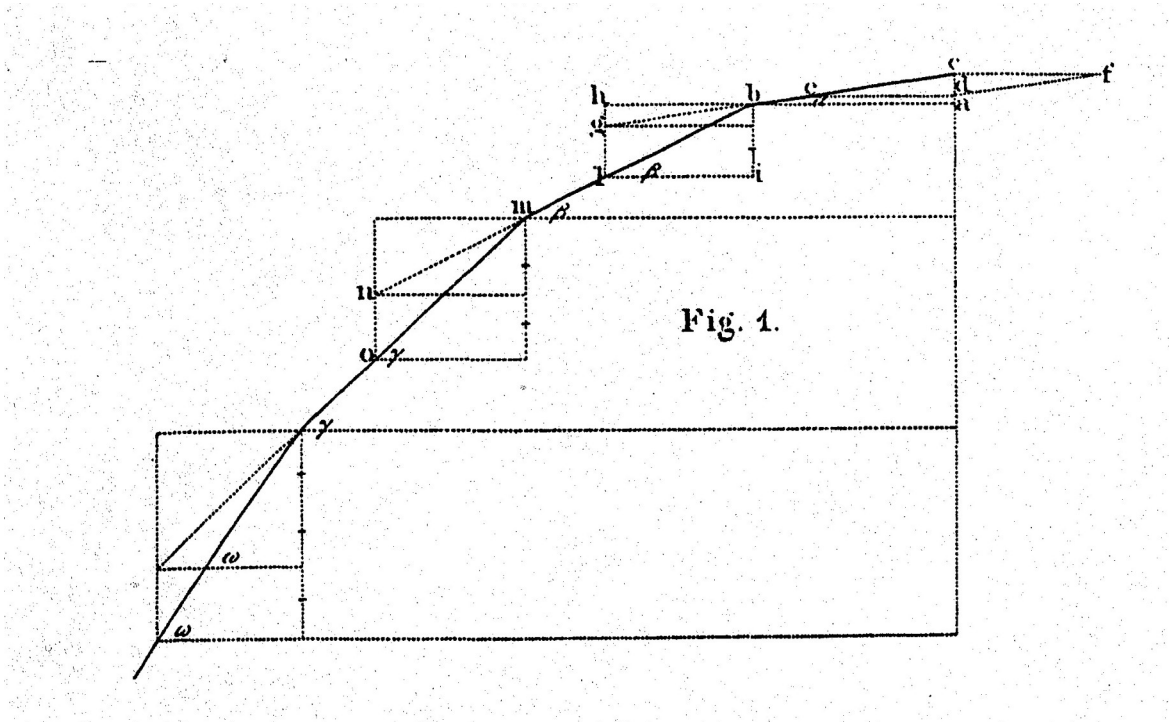
Safety of masonry arches

STRUCTURES & TECHNOLOGIES LAB

UCLouvain LOCI LAB

HIMASS-2022 Research Workshop
- Zoom online guest lecture, 31-Augustus-2022 | Denis Zastavni (UCLouvain)



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Plan

Calculation and verification of masonry, historical benchmaks:

plastic design, kinematic approach, static equilibrium approach (thrust lines)

Design of arches and the relation to the form

Design of arches and the relation to loading and hinges

Safety factors for masonry arches

About infinite resistance and crushing

Contemporary developments : safety of arches

Contemporary developments : admissible domains in Graphic Statics

Contemporary developments : spreadsheets & VGS (automatic calculation)

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