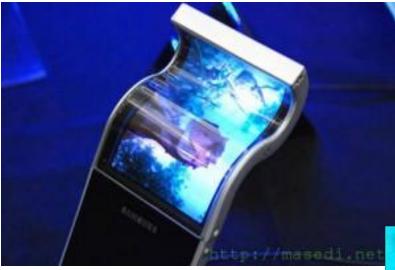
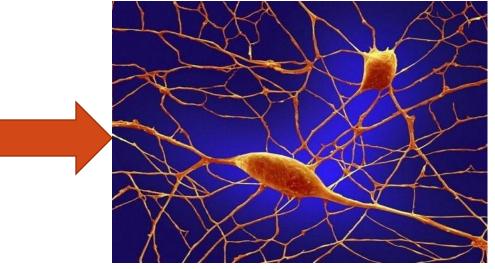
PHYSICS, CHEMISTRY AND GEOMETRY IN INVENTIVE TASKS





MACROMECHANICS



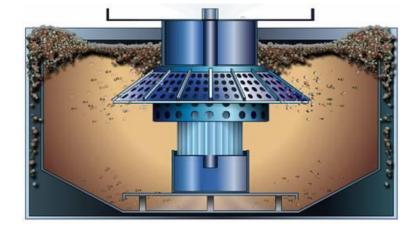


MICROCOSM



Mechanical ragging and rise to the surface

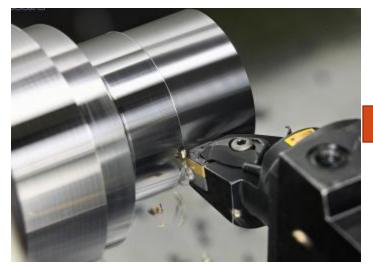




Leaching of the ore body

Manufacturing

Machining

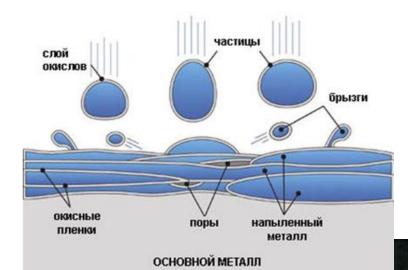


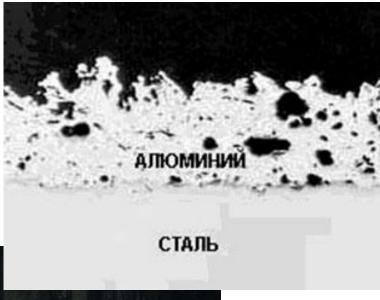


Cultivation of crystal

29.04.2014

Surface metallization







Metal Eco-cryo-cast with ice models



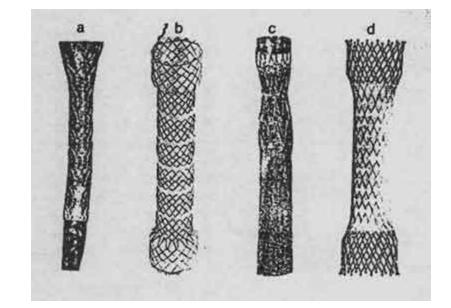
Metal casting with centrifugal force

Example A.c. 232 450: getting of objects with paraboloid form



Memory effects: TiNi-based alloys





29.04.2014

Allocation of metal in the volume

- it is possible to get wood-metal or metal in the other pore objects
- photosensitive glass due to reversibility (decayformation) of silver chloride



Water Magnetization



PHASES CHANGES

1-nd phase change



PHASES CHANGES

- The 2-nd phase changes examples:
- liquid helium change to super fluid state
- ferromagnetic change to paramagnetic under Curie peak
- alloys crystals inversion etc.



Geometry: curvature

- Instead of using rectilinear parts, surfaces or forms, use curvilinear ones; move from flat surfaces to spherical ones; from parts shaped as a cube (parallelepiped) to ball-shaped structures
- Use rollers, balls, spirals, domes
- Go from linear to rotary motion, use centrifugal forces

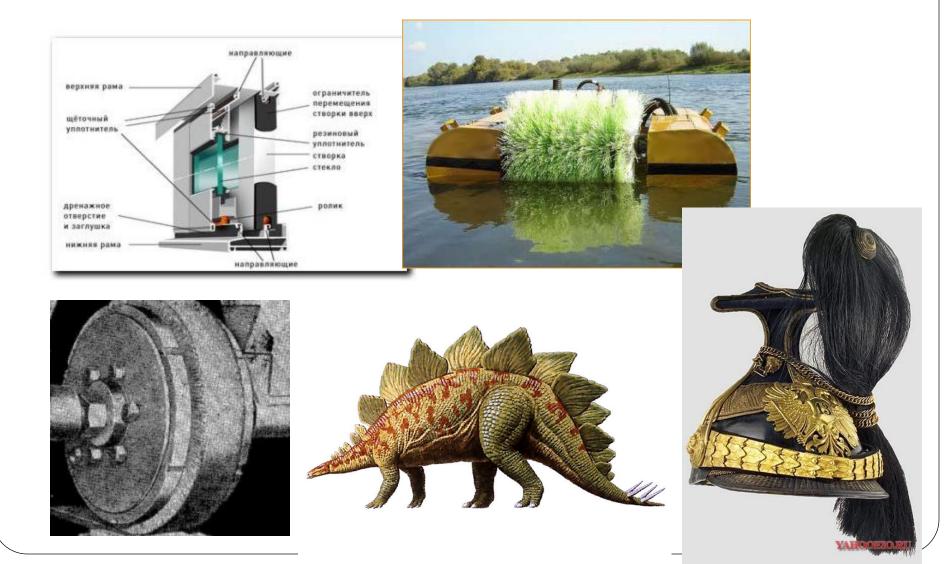
Geometry: curvature



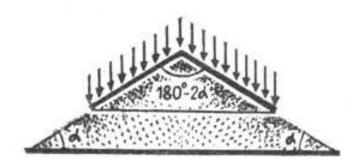
Geometry: curvature



Geometry: brush

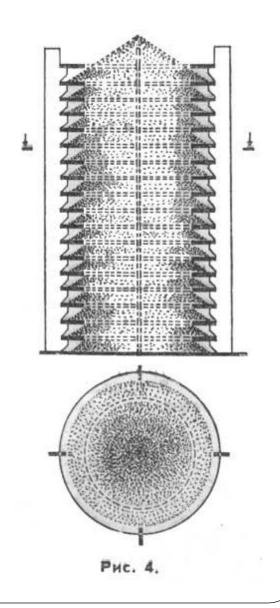


Geometry: granular bodies









Geometry: spirals

