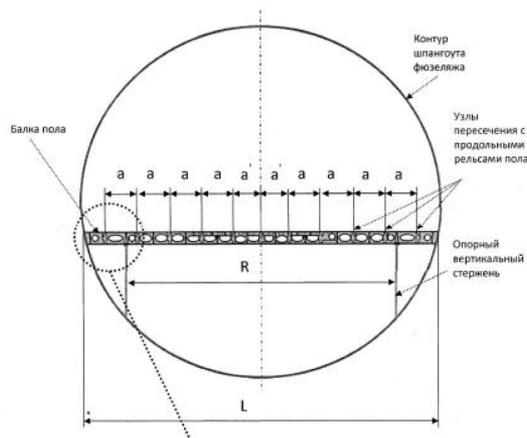


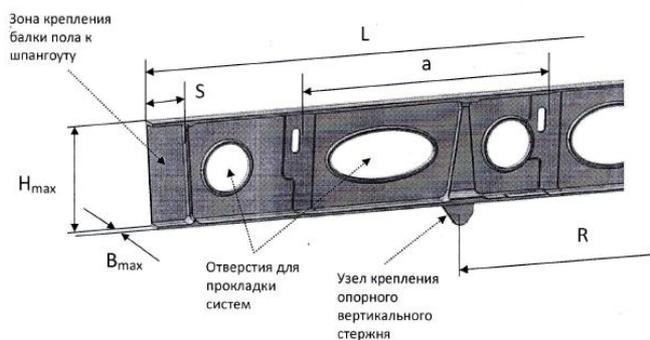
# Оптимизация поперечной балки пола фюзеляжа самолета.

Выполнил:  
Шильцев Е.С. 4-33  
Руководитель:  
Сабанеев Н.А.

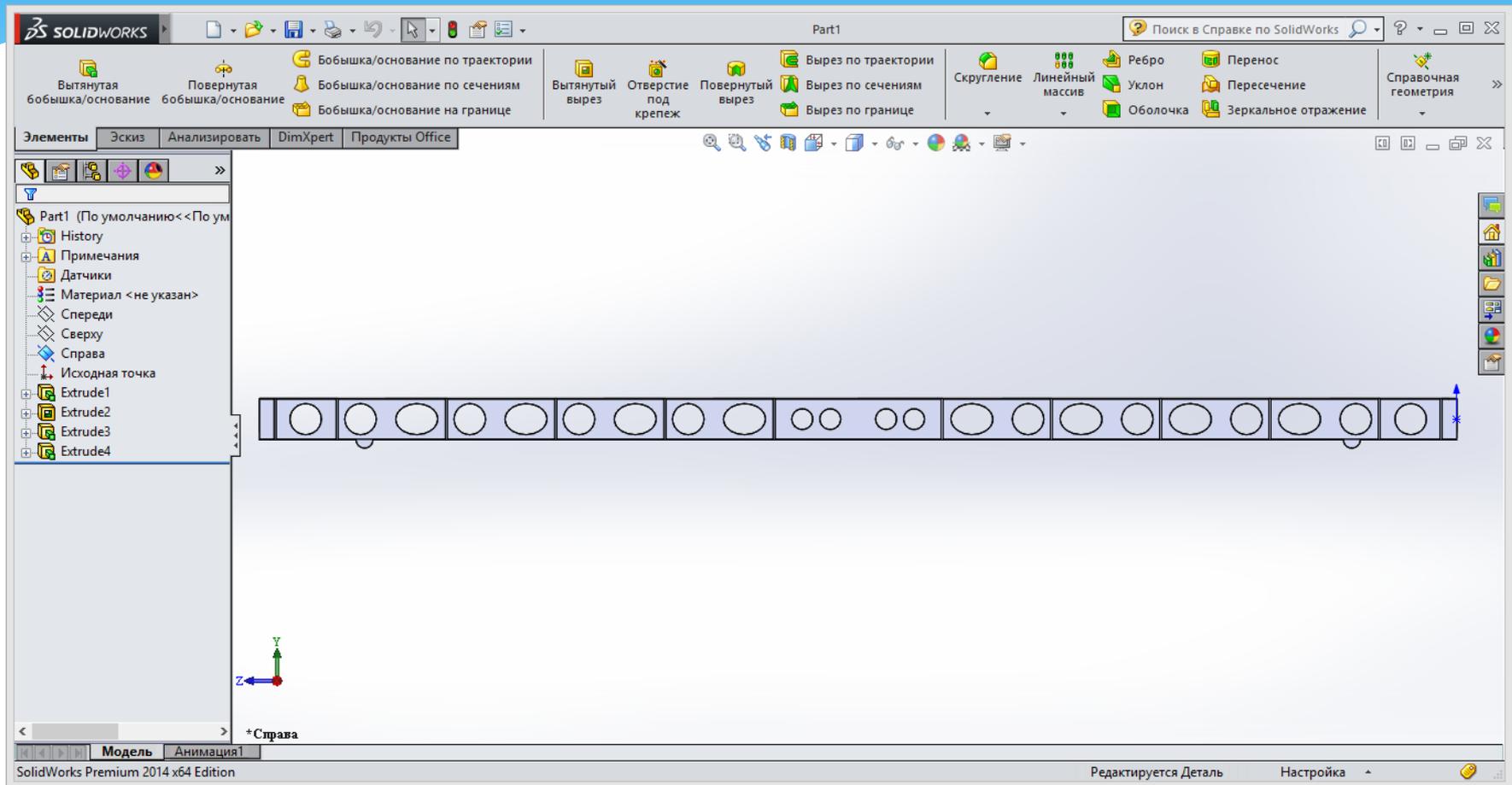
# Исходные данные



$H = 200$  мм – Высота балки  
 $B = 30$  мм – Ширина балки  
 $L = 5700$  мм - Длина балки  
 $R = 4850$  мм – Расстояние между опорными стержнями  
 $S = 70$  мм – Длина зоны крепления  
 $a = 520$  мм - Расстояние между продольными балками пола



# Создание параметрической модели



# Создание проекта расчета в программе Workbench

The screenshot displays the ANSYS Workbench interface with the following components:

- Toolbox:** A list of analysis systems on the left, including Design Assessment, Electric, Explicit Dynamics, Fluid Flow (various types), Harmonic Response, Hydrodynamic Diffraction, IC Engine, Linear Buckling, Modal, Random Vibration, Response Spectrum, Rigid Dynamics, Static Structural, Steady-State Thermal, Thermal-Electric, Transient Structural, and External Connection Systems.
- Project Schematic:** A central workspace showing a hierarchical model structure. It features two main components, A and B, connected by a red arrow. Component A contains 'Geometry' and 'Parameters'. Component B contains 'Static Structural', 'Engineering Data', 'Geometry', 'Model', 'Setup', 'Solution', 'Results', and 'Parameters'. A 'Parameter Set' is shown at the bottom, with red arrows indicating its application to the 'Parameters' of both components A and B.
- Properties of Schematic B4: Model:** A table on the right showing the configuration for the selected model.
- Progress:** A table at the bottom showing the status of the analysis components.

	A	B
1	Property	Value
2	General	
3	Component ID	Model
4	Directory Name	SYS
5	Notes	
6	Notes	
7	Used Licenses	
8	Last Update Used Licenses	
9	System Information	
10	Physics	Structural
11	Analysis	Static Structural
12	Solver	Mechanical APDL

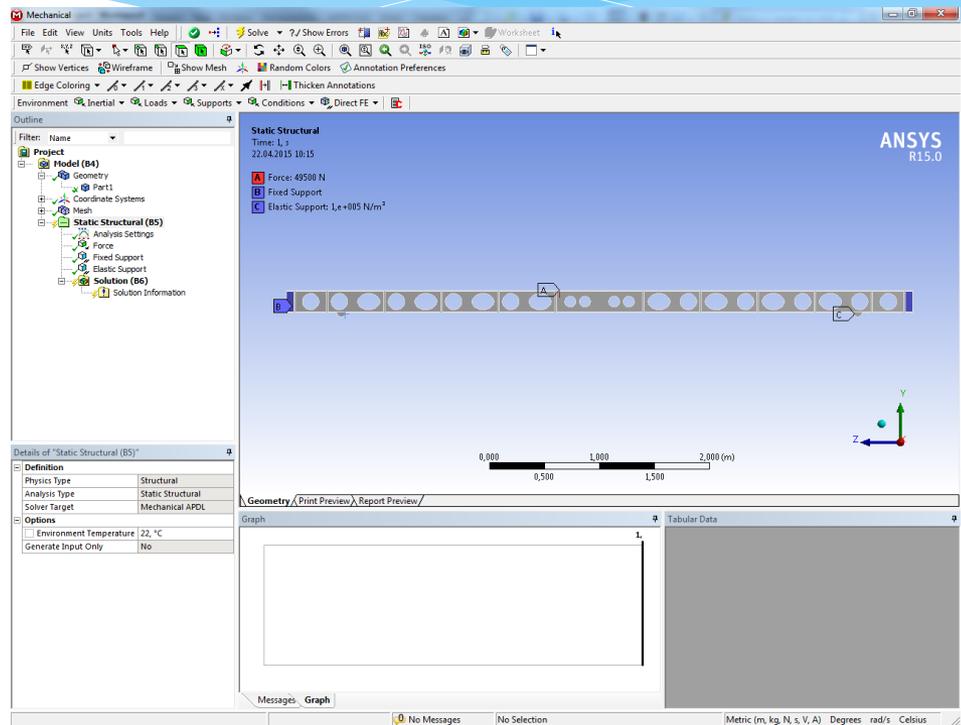
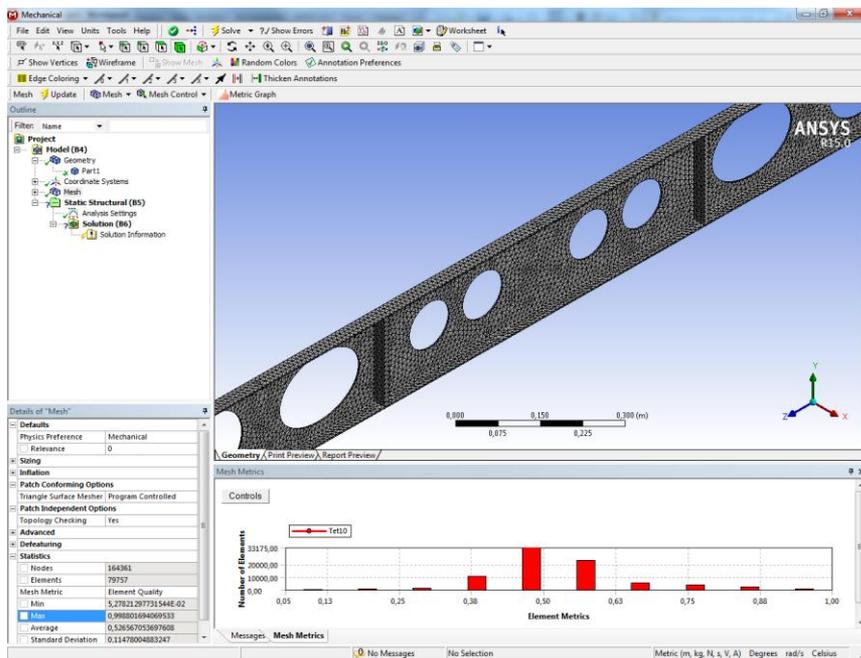
	A	B	C
1	Status	Details	Progress

Right-click to update component.

Hide Progress

Hide 0 Messages

# Граничные условия



# Расчет напряжений и деформаций

