

Part II

Systems with Distributed Parameters

Foreword to Part II

In the Part II of given book, as against a Part I, as an elementary cell, elements with the distributed parameters with the known analytical solution (beams, plates, shells) are used. For them dynamic compliances (stiffness) are determined. The further analytic and numerical investigations will be carried out with use of fundamental matrixes for regular systems ([Chap. 5](#)).

Note. It is necessary to keep in mind, as we use the conceptions of dynamic compliances (stiffness) then as follows from its definition (Sect. 2.3) the all parameters include the current frequency ω . Therefore it should be pointed out that everywhere in Part II we understand by the concepts of (*generalized*) *forces and coordinates the amplitude of these parameters in the case of harmonic excitation.*