

1. Record Nr.	UNINA9910484670903321
Titolo	Gears in design, production and education : a tribute to prof. Veniamin Goldfarb // editors, Natalya Barmina, Evgenii Trubachev
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-73022-0
Descrizione fisica	1 online resource (445 pages) : illustrations
Collana	Mechanisms and machine science ; ; Volume 101
Disciplina	621.833
Soggetti	Gearing - Design and construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Professor V.I. Goldfarb: life activity and contribution to gearing science Some exercises with equations of meshing: review of fundamental manuscript Challenges of mechanical engineering and in IFToMM: yesterday and tomorrow Classification of gear pairs with fixed axes. Review Virtual metrology of helical gears reconstructed from point clouds Cylindrical arc gears. History, achievements, and problems Gear tooth edge deburring and chamfering in 5Axis CnC manufacturing Worm-type gear with steel gearwheel Parametric synthesis of technological systems for gear finishing Gears in Russian university courses on Mechanism and Machine Science Geared designs from the past for today Theory of adaptive transmission Load state of low-speed spiroid gears Uncertainties in modeling the lifetime-and-functional properties of gear trains and transmissions and ways to reduce them Minimization of contact pressure in the straight bevel gear with saving of its size Conic linear helicoids: Part 1. Synthesis and analysis of the basic geometric characteristics Conic linear helicoids: Part 2. Applications in the synthesis and design of spatial motions transformers Automation of engineering design and configuration of medium complexity products by example of spiroid gearboxe Meshing limit line of normal arc-toothed cylindrical worm drive Improving the efficiency of gear milling of cylindrical gears with worm cutters when using pulse feed Advanced lifetime tests of plastic gears with E- and S-geometry

