

1. Record Nr.	UNINA9910366595403321
Titolo	Advanced Surface Enhancement : Proceedings of the 1st International Conference on Advanced Surface Enhancement (INCASE 2019)— Research Towards Industrialisation // edited by Sho Itoh, Shashwat Shukla
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-0054-1
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XII, 360 p. 278 illus., 211 illus. in color.)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	670
Soggetti	Manufactures Surfaces (Technology) Thin films Mechanics, Applied Solids Machines, Tools, Processes Surfaces, Interfaces and Thin Film Solid Mechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Optimization of shot peening for titanium alloys Ti 10-2-3 in CONDOR project -- Mechanical Investigations on Composite Peened Aluminium -- Inuence of wetblast treatment on fatigue strength of magnesium alloy AZ31 -- Process Model for Evaluating the Peen Velocity in Shot Peening Machine -- Experimental study of single shot process: toward a surface state predictive tool -- Microstructural changes in electroplated chromium coating-substrate interfaces induced by shot peening -- Investigation on theoretical analysis of residual stress distribution induced by shot peening in 2397 Aluminum-Lithium alloy. Eect of shakedown on the fatigue limit of ultrasonic shot peened steel -- Fundamentals and applications of cavitation peening comparing with shot peening and laser peening.
Sommario/riassunto	This book presents the proceedings of the first INCASE conference, organised by ARTC at A*STAR, Singapore. It provides a comprehensive

review of recent advances in surface enhancement processes and strategies employed to assess their impact on materials properties and performance. As cyber-physical systems are becoming more and more relevant in manufacturing, it focuses on assessing the readiness of current technologies for future transformations, such as Industry 4.0, identifying the opportunities and challenges, and exploring ways to address them. Written by researchers, practising engineering and industry experts, the book bridges the gap between research and manufacturing, promoting technology adoption in industry and innovative ideas to prepare it for the future. .
