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	Autore	Grous Ammar
	Titolo	Applied metrology for manufacturing engineering [[electronic resource] /] / Ammar Grous
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	Descrizione fisica	1 online resource (695 p.)
	Collana	Instrumentation and measurement series
	Disciplina	670 670.42
	Soggetti	Manufacturing processes Metrology Tolerance (Engineering)
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	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Cover; Title Page; Copyright Page; Table of Contents; 2.2.5. Dimensioning according to ANSI and CSA; Chapter 1. Fundamentals of Error Analysis and their Uncertainties in Dimensional Metrology Applied to Science and Technology; 1.1. Introduction to uncertainties in dimensional metrology; 1.2. Definition of standards; 1.3. Definition of

errors and uncertainties in dimensional metrology; 1.3.1. What is the difference between error and uncertainty?; 1.3.2. Why make a calculation of errors' uncertainty?; 1.3.3. Reminder of basic errors and uncertainties

1.3.4. Properties of uncertainty propagation 1.3.5. Reminder of random basic variables and their functions; 1.3.6. Properties of random variables of common functions; 1.4. Errors and their impact on the calculation of uncertainties; 1.4.1. Accidental or fortuitous errors; 1.4.2. Systematic errors; 1.4.3. Errors due to apparatus; 1.4.4. Errors due to the operator; 1.4.5. Errors due to temperature differences; 1.4.6. Random errors; 3.10.5. Measurement of screw threads by three-wire method; 1.5. Applications based on errors in dimensional metrology; 1.5.1. Absolute error =  $E_a$

1.5.2. Relative error =  $E_r$  1.5.3. Systematic error; 1.5.4. Accidental error (fortuitous error); 1.5.5. Expansion effect on a bore/shaft assembly; 1.6. Correction of possible measurement errors; 1.6.1. Overall error and uncertainty; 1.6.2. Uncertainty due to calibration methods; 1.6.3. Capability of measuring instruments; 1.7. Estimation of uncertainties of measurement errors in metrology; 1.7.1. Definitions of simplified equations of uncertainty measurements; 1.7.2. Issue of mathematical statistics evaluation of uncertainties in dimensional metrology

1.7.3. Uncertainty range, coverage factor  $k$  and range of relative uncertainty 1.8. Approaches for determining type A and B uncertainties according to the GUM; 1.8.1. Introduction; 1.8.2. Properties; 1.8.3. Brief description of type-A uncertainty evaluation method; 1.8.4. Type-B uncertainty methods; 1.9. Principle of uncertainty calculation: types A and B; 1.9.1. Error on the repeated measure: calculation of compound standard uncertainty; 1.9.2. Applications on the laboratory calculations of uncertainties; 1.9.3. Simplified models for the calculations of measurement uncertainties

1.9.4. Laboratory model of dimensional metrology 1.9.5. Measurement uncertainty evaluation discussion; 1.9.6. Contribution of the GUM in dimensional metrology; 1.10. Summary; 1.11. Bibliography; Chapter 2. Fundamentals of Dimensional and Geometrical Tolerances According to ISO, CSA (Canada), and ANSI (USA; 2.1. Introduction to geometrical products specification; 2.2. Dimensional tolerances and adjustments; 2.2.1. Adjustments with clearance:  $\varnothing 80\text{ H8/f7}$ ; 2.2.2. Adjustments with uncertain clearance:  $\varnothing 80\text{ H7/k6}$ ; 2.2.3. Adjustments with clamping or interference

2.2.4. Approach for the calculation of an adjustment with clearance

## Sommario/riassunto

Applied Metrology for Manufacturing Engineering, stands out from traditional works due to its educational aspect. Illustrated by tutorials and laboratory models, it is accessible to users of non-specialists in the fields of design and manufacturing. Chapters can be viewed independently of each other. This book focuses on technical geometric and dimensional tolerances as well as mechanical testing and quality control. It also provides references and solved examples to help professionals and teachers to adapt their models to specific cases. It reflects recent developments in ISO and GPS standard

3. Record Nr.	UNINA9910963884903321
Autore	Snyder Timothy
Titolo	The reconstruction of nations : Poland, Ukraine, Lithuania, Belarus, 1569-1999 // Timothy Snyder
Pubbl/distr/stampa	New Haven, : Yale University Press, c2003
ISBN	9786611721763 9781281721761 128172176X 9780300128413 030012841X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (xv, 367 pages) : illustrations, maps
Disciplina	947.084
Soggetti	HISTORY / Europe / Eastern Europe, Eastern History 20th century
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references (p. 299-349) and index.
Nota di contenuto	Machine generated contents note: Part I The Contested Lithuanian-Belarusian Fatherland --1 The Grand Duchy of Lithuania (1569-1863), 15 --2 Lithuania! My Fatherland! (1863-1914), 31 --3 The First World War and the Wilno Question (1914-1939), 52 --4 The Second World War and the Vilnius Question (1939-1945), 73 --5 Epilogue: Soviet Lithuanian Vilnius (1945-1991), 90 -- Part II The Embattled Ukrainian Borderland --6 Early Modern Ukraine (1569-1914), 105 --7 Galicia and Volhynia at the Margin (1914-1939), 133 --8 The Ethnic Cleansing of Western Ukraine (1939-1945), 154 --9 The Ethnic Cleansing of Southeastern Poland (1945-1947), 179 --10 Epilogue: Communism and Cleansed Memories (1947-1981), 202 Part III The Reconstructed Polish Homeland --11 Patriotic Oppositions and State Interests (1945-1989), 217 --12 The Normative Nation-State (1989-1991), 232 --13 European Standards and Polish Interests (1992-1993), 256 --14 Envoi: Returns to Europe, 277 --Abbreviations, 294 --Archives, 295 -- Document Collections, 296 --Notes, 299 --Acknowledgments, 350 -- Index, 355.
Sommario/riassunto	Modern nationalism in northeastern Europe has often led to violence

and then reconciliation between nations with bloody pasts. In this fascinating book, Timothy Snyder traces the emergence of Polish, Ukrainian, Lithuanian, and Belarusian nationhood over four centuries, discusses various atrocities (including the first account of the massive Ukrainian-Polish ethnic cleansings of the 1940's), and examines Poland's recent successful negotiations with its newly independent Eastern neighbors, as it has channeled national interest toward peace.

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