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Nota di contenuto	Cover -- Zusammenfassung -- Abstract -- List of figures and tables -- List of abbreviations -- List of variables -- 1. Research motivation and overview -- 2. The data -- 3. Methods of extracting business cycle characteristics -- 3.1 Defining the business cycle -- 3.1.1 The classical business cycle definition -- 3.1.2 The deviation cycle definition -- 3.2 Isolation of business cycle frequencies -- 3.2.1 Outliers -- 3.2.2 Calendar effects -- 3.2.3 Seasonal variations -- 3.2.4 The trend -- 4. Identifying the business cycle -- 4.1 Construction of composite economic indices -- 4.1.1 The empirical NBER approach -- 4.1.2 Index models -- 4.2 Univariate determination of the business cycle -- 5. Analysing cyclical comovements -- 5.1 Time domain statistics for analysing comovements -- 5.2 Frequency domain statistics for analysing comovements -- 5.2.1 Coherence -- 5.2.2 Phase spectra and mean delay -- 5.2.3 Dynamic correlation -- 5.2.4 Cohesion -- 6. Dating the business cycle -- 6.1 The expert approaches -- 6.2 The Bry-Boschan routine -- 6.3 Hidden Markovian-switching processes --

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## Sommario/riassunto

Dating business cycle turning points is still an important task for economic policy decisions. This study does this for the Austrian economy for the period between 1976 and 2005, using only quarterly national accounts data of Austria, Germany and the euro area. Three different filtering methods are applied: first-order differences, the Hodrick-Prescott filter, and the Baxter-King filter. To all of them, two different methods of determining the business cycle are applied: the ad-hoc determination of the business cycle and a dynamic factor model, taking into account the common variations of Austria, the euro area and the German business cycle movements. The results of both methods are dated by the Bry-Boschan algorithm in order to locate peaks and troughs of the cycle. The results are interpreted and compared to already existing studies on the euro area and the Austrian business cycle.

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Nota di contenuto	Properties of Vacuum-Evaporated CH <sub>3</sub> NH <sub>3</sub> PbCl <sub>3</sub> -xI <sub>x</sub> Perovskite Layers -- Functional Capabilities of Two-barrier Semiconductor Structures -- Gamma Radiation Sensitization of ZnO/Al <sub>2</sub> O <sub>3</sub> Sensors Based on Nanoheterostructures -- Electrical Properties of the (Copper, Dysprosium)-Containing Complex Compound -- Morphological and Sensing Properties of the ZnO - Zn <sub>2</sub> SnO <sub>4</sub> Ternary Phase Nanorod Arrays -- Characterization of Films Prepared by Aerosol Spray Deposition in the (MgO) <sub>x</sub> (In <sub>2</sub> O <sub>3</sub> )(1-x) System -- Nanocomposite Films Based on Photosensitive Azopolymer with Gold Nanoparticles: Synthesis, Film Deposition, Diffractive Optical Elements Recording and Characterization -- MOF-coated 3D-printed ZnO Tetrapods as a Two-in-one Sensor for H <sub>2</sub> Sensing and UV Detection -- A Nanosized Heteronuclear {Fe <sub>18</sub> Tb <sub>6</sub> } Coordination Wheel Based on Pivalate and

Triethanolamine Ligands -- Organic Nanostructured Crystals for Thermoelectric Cooling in Medical Applications -- General Nature of Serration Effect in Crystals and Other Materials Under Indentation -- Trends in Evolution of the Energy Band Structure of Chalcopyrite  $\text{Cu}_{1-x}\text{Bi}_x\text{S}_2$  Compounds with Variation of the B and X Compositions -- Optical and Photoelectric Properties of Cadmium Diarsenide and Surface-barrier Structures Based on it -- Preliminary Study on Silver Nanoparticle Synthesis Through Chemical and Biological Methods -- Advanced Nanotechnology-based Approaches to Waste Water Purification from Organic Pollutants.

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Sommario/riassunto

This book reports on advances in fundamental and applied research at the interface between nanotechnology and biomedical engineering. Gathering peer-reviewed contributions to the 6th International Conference on Nanotechnologies and Biomedical Engineering, ICNBME held on September 20-23, 2023, in Chisinau, Republic of Moldova, this first volume of the proceedings focuses on nanotechnologies and nano-biomaterials, and their applications in medicine. With a good balance of theory and practice, the book offers a timely snapshot of multidisciplinary research at the interface between physics, chemistry, biomedicine, materials science, and engineering.

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