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Titolo	The Brazilian Amazonia in Change II : Five Decades of Exploitation, Deforestation and Attempts at Sustainable Development
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Nota di contenuto	Frontmatter -- Editorial -- Contents -- Preface -- Foreword to Volume 2 -- I Amazônia Legal in the mid-1970s and 1980s -- 1. Alternative strategies to the colonisation policy of the Military Government -- 2. Polonoroeste: A new strategy of integrated rural development -- 3. Conflicts of interest at the Amazonian pioneer fronts in the 1980s -- 4. Mega-projects and their impact on the regional development in East Amazonia: The Grande Carajás programme (PGC) -- 5. The energy-related Plano 2010 and its possible impacts on Amazonia -- 6. The Significance of the New Constitution of 1988 for environmental policy in Amazonia -- II Promising environmental concepts for Amazonia under pressure by economic growth and agrobusiness strategies (1990s–2018) -- 1. Previous international initiatives for the protection of tropical rain forests -- 2. The International Pilot Programme to Conserve the Brazilian Rain Forests (PPG7: 1993–2009): An approach to sustainable regional development -- 3. Extensive infrastructure programmes as an extreme contrast to concurrent environmental policy measures -- 4. Private colonisation in Mato Grosso and expansion of agribusiness into the cerradão and tropical forest ecosystems -- 5. The new regional policy of the Plan of Sustainable Amazonia (PAS) -- 6. The hydroelectric power plant Belo Monte and its environmental and socio-ecological impacts -- 7. Population in Amazônia Legal 1970–2022 -- 8. Scientific research centres, research cooperation programmes and

NGO activities in the Amazon region -- III Devastation and environmental degradation policies in Amazônia Legal during the Bolsonaro Government (2019–2022) -- 1. Chaotic activities of a decided enemy of sustainability in Amazonia -- 2. Destruction of tropical forest ecosystems due to logging and slash-and-burn activities -- 3. The ecological impacts of deforestation and problems of climate change -- 4. Threats to the Indigenous population and their habitats in Amazonia -- 5. Disagreements between donor countries and the Bolsonaro government regarding the Amazon Fund -- 6. The EU-Mercosur agreement failed under Bolsonaro’s presidency -- 7. The situation of Amazônia Legal during the Bolsonaro Government and possible future perspectives -- IV Epilogue -- 1. Hopes after the change of government in 2023: Lula da Silva as game changer? -- 2. Concluding remarks -- Appendix -- References

Sommario/riassunto

In the Brazilian planning region “Amazônia Legal”, deforestation of rain forests for the extraction of mineral resources, cattle breeding, soybean farming, transport infrastructure and hydropower plants was carried out without regard for the indigenous people and regional socio-ecological vulnerability. The implementation of damaging mega-programmes caused disastrous environmental problems. Large-scale destruction of biodiversity, rising temperatures and instability of precipitation not only pose a threat to the region, but also have global impacts on climate change. Over the last two decades, parts of Amazônia Legal have evolved from a CO2 sink to a source of CO2 emissions.

2. Record Nr. UNINA9911020415403321

Autore	Usubamatov Ryspek
Titolo	Theory of Gyroscopic Effects for Rotating Objects : Gyroscopic Effects and Applications / / by Ryspek Usubamatov
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ISBN	3-031-74201-X
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Nota di contenuto	Preface -- Abstract -- Nomenclature -- Gyroscopic effects in engineering -- Acceleration analysis of rotating object -- Inertial forces acting on simple spinning objects -- Properties and specifies of gyroscopic torques -- Mathematical models for motions of a gyroscope suspended from the flexible cord -- Mathematical models for motions of a gyroscope with one side support -- Mathematical models for the top motions and gyroscope nutation -- Gyroscopic effects of deactivation of inertial forces -- Appendix A -- Appendix B.
Sommario/riassunto	This book highlights an analytical solution for the dynamics of axially rotating objects. It also presents the theory of gyroscopic effects, explaining their physics and using mathematical models of Euler’s form for the motion of movable spinning objects to demonstrate these effects. The major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal and Coriolis forces, as well as the change in the angular momentum. The interrelation of inertial torques is based on the dependency of the angular velocities of the motions of the spinning objects around axes by the principle of mechanical energy

conservation. These kinetically interrelated torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects of different designs, like rings, cones, spheres, paraboloids, propellers, etc. Lastly, the mathematical models for the gyroscopic effects are validated by practical tests. This book is highlighted in its already third edition. The new edition comprises many new sections for several chapters or new chapters. The most important ones are: Chapter 3 includes a mathematical model for the section inertia torques acting on the spinning annulus and thin ring. The latter does not have a full solution because the handbooks comprise simplified parameters that cannot be used for an exact solution. Chapter 4 offers mathematical model for the arbitrary disposition of the spinning object in space that shows the action of the additional four inertial torques acting on the third axis and new dependencies of gyroscope motions. Chapter 7 now presents mathematical model for the gyroscope nutation with a full solution. The known mathematical model presents a partial solution due to the complexity of the problem.