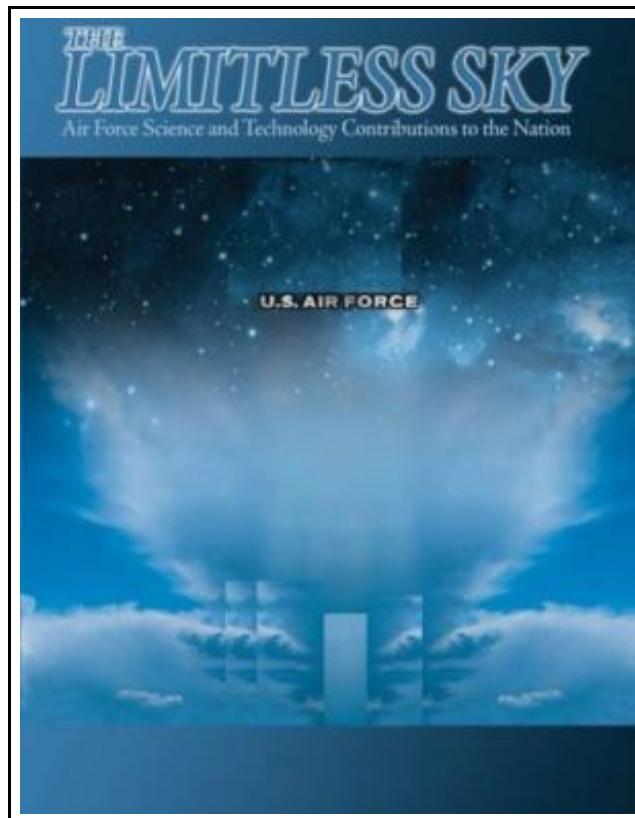


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Createspace, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The first paper tells the story of GPS. It is not only a story of scientific and technical achievement, but also one of suspense that illustrates the difficulties of introducing revolutionary technologies. The failures and successes in that program attest to the vision and perseverance of the people who made it happen. The GPS finally solved the problem that had challenged seafarers since antiquity. It has also enabled a multitude of civilian and military applications. The second paper looks at a development that has revolutionized the employment of air power. The use of laser research and the GPS has enabled ever-increasing precision strikes at ever-increasing distances. From tens of bombers dropping hundreds of bombs to hit a single target in World War II, now a single aircraft can strike several targets. Precision also raises expectations for minimizing collateral damage and puts high priority on detecting targets, identifying them correctly, and tracking them. Advances in electro-optical/infrared imaging, in radar, and in lasers have become the triad for remote sensing, where the objective has been to overcome the problems of great distances, weather, and darkness, articulated by von Karman. The third paper focuses on infrared cameras from their first beginnings to their employment in unmanned aerial vehicles such as the Predator and Global Hawk. The fourth paper looks at airborne radar, whether in AWACS or in Joint STARS, two systems that have revolutionized the conduct of air-to-air and air-to-ground operations. Soon after the first powered flight in 1903, the effects of the high altitude environment on the performance of pilots became a concern. Research on the effects of hypoxia went back to balloonists in the late nineteenth century. With the creation in 1918 of the...

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