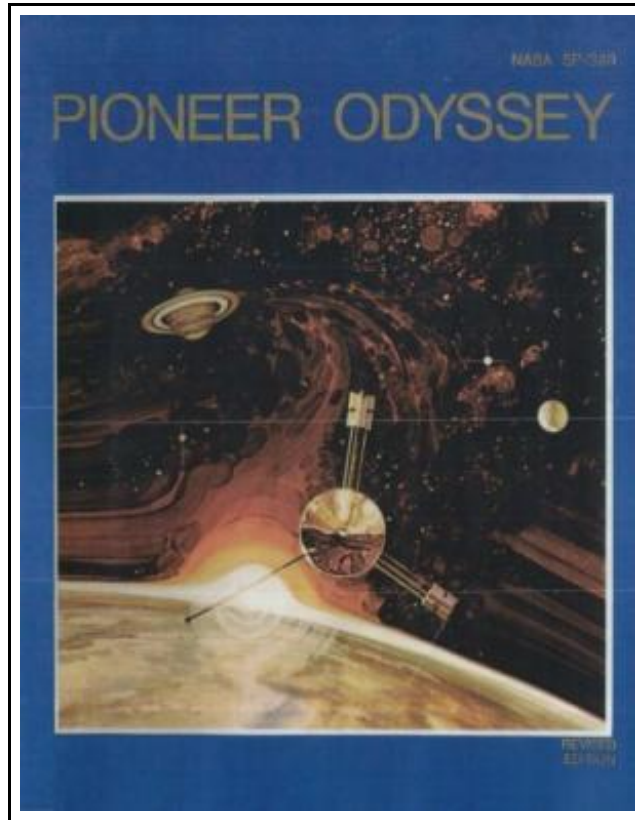


## Pioneer Odyssey (Paperback)



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Createspace, United States, 2013. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.There are certain human enterprises that seem, from the very beginning, to be touched with a certain elan that distinguishes them from others. Those of us who have had the pleasure to be associated with the Pioneer project have long felt that it belongs in this group. There is about Pioneer 10 and 11 a simplicity in concept and an elegance in design and execution that clearly transcends the ordinary. These Pioneer spacecraft are unique: Pioneer 10 is the first spacecraft to fly beyond the orbit of Mars and through the Asteroid belt, it made the first series of in situ measurements of Jupiter's environment, it provided the first close-up pictures of the giant planet and finally, Pioneer 10 is the first man-made object to leave the solar system. Pioneer 11 is the first spacecraft to fly to the ringed planet Saturn. In spite of the essential simplicity of the Pioneer spacecraft, highly sophisticated scientific experiments were performed. The first direct measurements of Jupiter's magnetic field and of the charged particles trapped in the field were performed. A thermal map of Jupiter was obtained and information about the composition of the planet's upper atmosphere was secured. The trajectory of Pioneer 10 was such that the spacecraft was occulted by the satellite Io which provided the first direct evidence of the very tenuous atmosphere that surrounds Io by observing the direct alteration of the telemetry signal carrier wave. The trajectory of Pioneer 11 provided the first pictures of the polar regions of the giant planet. These results, as well as many others, are explained in more detail in this volume. It would be a mistake to...



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