



1
00:00:05,420 --> 00:00:02,389
the left hand is free to operate the

2
00:00:08,150 --> 00:00:05,430
radio transmission switch the pilots

3
00:00:10,640 --> 00:00:08,160
hand controller can start nitrogen jets

4
00:00:12,919 --> 00:00:10,650
that will pitch roll or yaw the yellow

5
00:00:15,470 --> 00:00:12,929
cage in either direction or in any

6
00:00:17,570 --> 00:00:15,480
combination of these directions he can

7
00:00:19,730 --> 00:00:17,580
thus counteract the rotation induced in

8
00:00:24,859 --> 00:00:19,740
the three cages by the test engineer in

9
00:00:27,080 --> 00:00:24,869
setting up the test conditions the test

10
00:00:29,990 --> 00:00:27,090
engineer starts the three cages rotating

11
00:00:32,150 --> 00:00:30,000
in roll pitch and yaw by means of the

12
00:00:35,000 --> 00:00:32,160
nitrogen pressure Jets at the rates

13
00:00:37,520 --> 00:00:35,010

designated for the test when the desired

14

00:00:39,590 --> 00:00:37,530

condition of rotation is reached control

15

00:00:42,979 --> 00:00:39,600

is given through the pilot and he then

16

00:00:44,479 --> 00:00:42,989

proceeds to fly the space vehicle fry

17

00:00:46,910 --> 00:00:44,489

the proper operation of his hand

18

00:00:49,250 --> 00:00:46,920

controller the pilot can orient the

19

00:00:52,400 --> 00:00:49,260

vehicle into an upright position while

20

00:00:54,380 --> 00:00:52,410

the outer changes are still rotating the

21

00:00:56,810 --> 00:00:54,390

pilots ability to control the tumble of

22

00:00:59,479 --> 00:00:56,820

his vehicle and his reaction to these

23

00:01:02,150 --> 00:00:59,489

high rates of rotation are recorded as

24

00:01:04,549 --> 00:01:02,160

well as the length of time required for

25

00:01:06,920 --> 00:01:04,559

him to recover from simple single axis

26

00:01:10,070 --> 00:01:06,930

maneuvers to those involving rotation

27

00:01:12,530 --> 00:01:10,080

about all three axes the results of this

28

00:01:13,880 --> 00:01:12,540

investigation will permit an estimate of

29

00:01:16,160 --> 00:01:13,890

some of the difficulties to be

30

00:01:19,190 --> 00:01:16,170

encountered when man first ventures into

31

00:01:21,200 --> 00:01:19,200

space as well as provide a degree of