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Chap. III. A Phænomenon solved by modern Philosophy and Astronomy. The Laputians great Improvements in the latter. The King's Method of suppressing Insurrections.

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CHAP. III.

A Phanomenon solved by modern Philofophy and Astronomy. The Laputians great Improvements in the latter. The King's Method of suppressing Insurrections.

Desired seave of this Prince to see the Curiosities of the Island, which he was graciously pleased to grant, and order'd my Tutor to attend me. I chiefly wanted to know to what Cause in Art, or in Nature, it owed its several Motions, whereof I will now give a Philosophical Account to the Reader.

THE Flying, or Floating Island, is exactly circular; its Diameter 7837 Yards, or about four Miles and an D 2 half,

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half, and consequently contains ten thousand Acres. It is three hundred Yards thick. The Bottom or Under-Surface, which appears to those who view it from below, is one even regular Plate of Adamant, shooting up to the Height of about two hundred Yards. Above it lie the feveral Minerals in their usual Order, and over all is a Coat of rich Mould ten or twelve Foot deep. This Declivity of the upper Surface, from the Circumference to the Center, is the natural Cause why all the Dews and Rains which fall upon the Island, are conveyed in small Rivulets towards the Middle, where they are emptied into four large Basons each of about half a Mile in Circuit, and two hundred Yards distant from the Center. From these Basons the Water is continually exhaled by the Sun in the Day-time, which effectually prevents their over flowing. Befides, as it is in the power of the Monarch to raise the Island above the Region of Clouds and Vae (I pours, Mich

pours, he can prevent the falling of Dews and Rains whenever he pleases: For the highest Clouds cannot rise above two Miles, as Naturalists agree, at least they were never known to do in that Country.

can turn if. It is booped sound with AT the Center of the Island there is a Chasm about fifty Yards in Diameter, from whence the Astronomers descend into a large Dome, which is therefore called Flandona Gagnole, or the Astronomers Cave, situated at the depth of a hundred yards beneath the upper Surface of the Adamant. In this Cave are twenty Lamps continually burning, which from the Reflection of the Adamant cast a strong Light into every Part. The Place is stored with great Variety of Sextants, Quadrants, Telescopes, Astrolabes, and other Astronomical Instruments. But the greatest Curiosity, upon which the Fate of the Island depends, is a Load-stone of a prodigious size, in shape resembling a Weaver's Shuttle.

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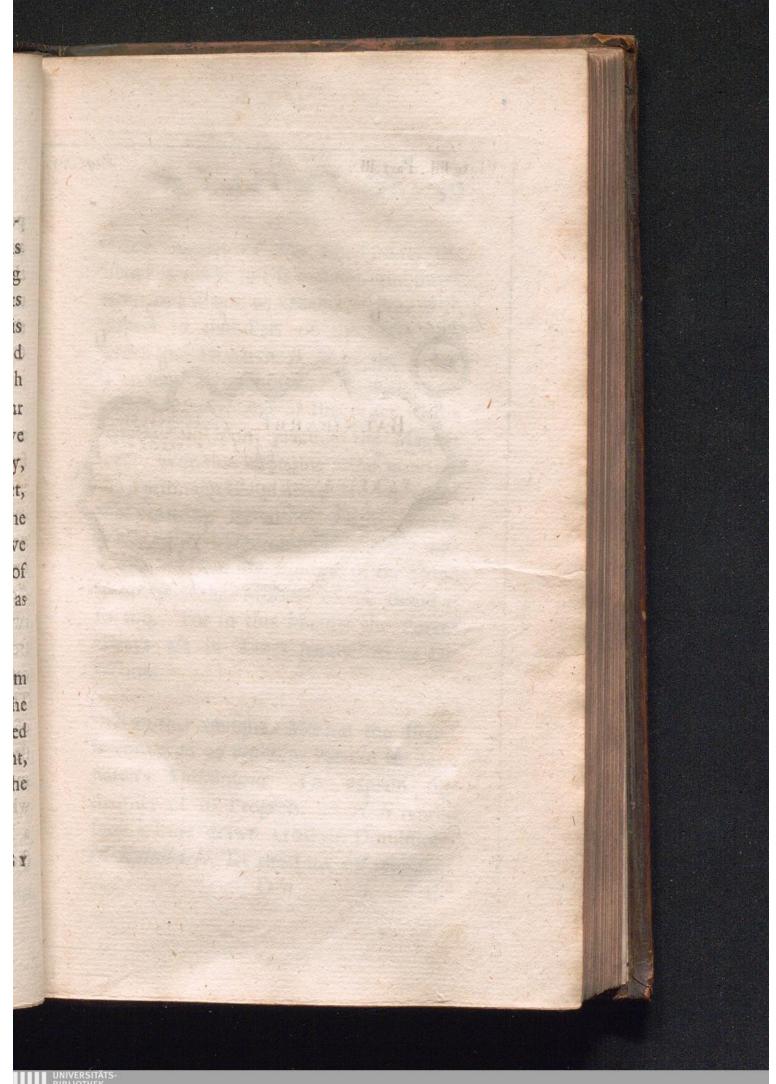
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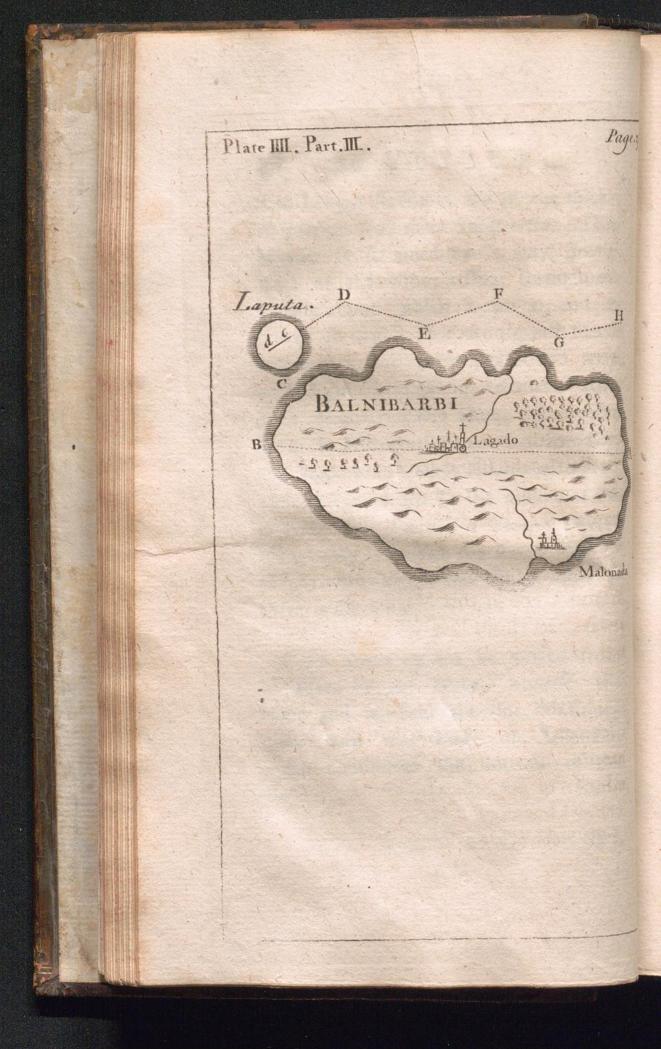
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is in Length six Yards, and in the thickest part at least three Yards over. This Magnet is fuffained by a very strong Axle of Adamant passing through its Middle, upon which it plays, and is poized so exactly, that the weakest Hand can turn it. It is hooped round with an hollow Cylinder of Adamant, four Foot deep, as many thick, and twelve Yards in Diameter, placed horizontally, and supported by eight Adamantine Feet, each fix Yards high. In the middle of the concave Side there is a Groove twelve Inches deep, in which the Extremities of the Axle are lodged, and turned round as there is Occasion. Mail the sequent winst

THE Stone cannot be moved from its Place by any Force, because the Hoop and its Feet are one continued Piece with that Body of Adamant, which constitutes the Bottom of the Mand.

Re resembling a Weaver's Shartle. It





the Read thene, of which for the the re-By means of this Load-stone, the Island is made to rise and fall, and move from one Place to another. For, with respect to that Part of the Earth over which the Monarch presides, the Stone is endued at one of its Sides with an attractive Power, and at the other with a repulsive. Upon placing the Magnet erect with its attracting End towards the Earth, the Island descends; but when the repelling Extremity points downwards, the Island mounts directly upwards. When the Position of the Stone is oblique, the Motion of the Island is so too. For in this Magnet the Forces always act in Lines parallel to its Direction.

By this oblique Motion the Island is conveyed to different Parts of the Monarch's Dominions. To explain the manner of its Progress, let A B represent a Line drawn cross the Dominions of Balnibarbi, let the Line c d represent D 4 the

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the Load-stone, of which let d be the repelling End, and c the attracting End; the Island being over C, let the Stone be placed in the Position cd, with its repelling End downwards, then the Island will be driven upwards obliquely towards D. When it is arrived at D, let the Stone be turned upon its Axle till its attracting End points towards E, and then the Island will be carried obliquely towards E; where, if the Stone be again turned upon its Axle till it stands in the Position E F, with its repelling Point downwards, the Island will rife obliquely towards F; where, by directing the attracting End towards G, the Island may be carried to G, and from G to H, by turning the Stone, so as to make its repelling Extremity point directly downwards. And thus by changing the Situation of the Stone as often as there is Occasion, the Island is made to rise and fall by turns in an oblique Direction; and by those alternate Risings and Fallings (the Obliquity being not confiderable)

ble) is conveyed from one Part of the Dominions to the other.

Plane of the Marison, the Iffand fine.

Bur it must be observed, that this Island cannot move beyond the Extent of the Dominions below, nor can it rise above the height of four Miles. For which the Astronomers (who have written large Systems concerning the Stone) assign the following Reason; That the magnetick Virtue does not extend beyond the Distance of four Miles, and that the Mineral which acts upon the Stone in the Bowels of the Earth, and in the Sea about six Leagues distant from the Shoar, is not diffused through the whole Globe, but terminated with the Limits of the King's Dominions; and it was easy from the great Advantage of such a superior Situation for a Prince to bring under his Obedience whatever Country lay within the Attraction of that Magnet. Is also to tract third part of that Number. They have

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When the Stone is put parallel to the Plane of the Horizon, the Island standeth still; for in that Case, the Extremities of it being at equal distance from the Earth, act with equal Force; the one in drawing downwards, the other in pushing upwards, and consequently no Motion can ensue.

affice the following Reafons (T) ...

THIS Load-stone is under the Care of certain Astronomers, who from Time to Time give it fuch Positions as the Monarch directs. They spend the greatest part of their Lives in observing the celestial Bodies, which they do by the assistance of Glasses far excelling ours in Goodness. For this Advantage hath enabled them to extend the Discoveries much farther than our Astronomers in Europe: for they have made a Catalogue of ten thousand fixed Stars; whereas the largest of ours do not contain above one third part of that Number. They have likewise discovered two lesser Stars, or Satellites,

Satellites, which revolve about Mars, whereof the innermost is distant from the Center of the primary Planet exactly three of his Diameters, and the outermost five; the former revolves in the space of ten hours, and the latter in twenty one and an half: so that the Squares of their periodical Times are very near in the same proportion with the Cubes of their Distance from the Center of Mars; which evidently shews them to be governed by the same Law of Gravitation, that influences the other Heavenly Bodies.

THEY have observed ninety three different Comets, and settled their Periods with great Exactness. If this be true, (and they affirm it with great Considence,) it is much to be wished that their Observations were made publick, whereby the Theory of Comets, which at present is very lame and defective, might be brought to the same Per-

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Perfection with other Parts of Aftro-

THE King would be the most absolute Prince in the Universe, if he could but prevail on a Ministry to join with him, but these have their Estates below on the Continent, and considering that the Office of a Favourite hath a very uncertain Tenure, would never consent to the enslaving their Country.

bellion or Mutiny, fall into violent Factions, or refuse to pay the usual Tribute, the King hath two Methods of reducing them to Obedience. The first and the mildest Course is by keeping the Island hovering over such a Town, and the Lands about it, whereby he can deprive them of the Benefit of the Sun and the Rain, and consequently afflict the Inhabitants with Death and Diseases. And if the Crime deserve it, they are at the same time pelted from above with

with great Stones, against which they have no Defence but by creeping into Cellars or Caves, while the Roofs of their Houses are beaten to pieces. But if they still continue obstinate, ot offer to raise Insurrections, he proceeds to the last Remedy, by letting the Island drop directly upon their Heads, which makes a universal Destruction both of Houses and Men. However, this is an Extremity to which the Prince is seldom driven, neither indeed is he willing to put it in execution, nor dare his Ministers advise him to an Action, which, as it would render them odious to the People, so it would be a great damage to their own Estates, which lie all below, for the Island is the King's Demesn.

But there is still indeed a more weighty Reason, why the Kings of this Country have been always averse from executing so terrible an Astion, unless upon the utmost Necessity. For if the Town intended to be destroyed should have

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have in it any tall Rocks, as it generally falls out in the larger Cities, a Situation probably chosen at first with a View to prevent such a Catastrophe: or if it abound in high Spires, or Pillars of Stone, a sudden Fall might endanger the Bottom or Under-surface of the Island; which, although it confifts, as I have faid, of one entire Adamant two hundred Yards thick, might happen to crack by too great a Choque, or burst by approaching too near the Fires from the Houses below, as the Backs both of Iron and Stone will often do in our Chimneys. Of all this the People are well apprized, and understand how far to carry their Obstinacy, where their Liberty, or Property is concerned. And the King, when he is highest provoked, and most determined to press a City to Rubbish, orders the Island to descend with great Gentlenels, out of a Pretence of Tendernels to his People, but indeed for fear of breaking the Adamantine Bottom; in which Case, it is the Opinion of all their Phi-SEVER

Philosophers, that the Load-stone could no longer hold it up, and the whole Mass would fall to the ground.

By a fundamental Law of this Realm, neither the King, nor either of his two elder Sons, are permitted to leave the Island; nor the Queen till she is past Child-bearing.



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