Avignon (Lat. Avenio), tn., cap. of dep. Vaucluse, France, on l. bk. of Rhone, 143 m. below Lyons and 25 m. above the apex of the delta. The city is the seat of an archbishop. The citadel-like palace of the popes, built 1336-70, with six towers and walls 18 ft. thick, is the chief object of interest. The metropolitan church, Notre Dame des Doms (12th century), perched on a rock (280 ft.), the Netherlands. He defeated between which and the river is the well-known Promenade des Rocher des Doms, and a multitude of other ecclesiastical structures, are interesting (la ville sonnante of Rabelais). A continuous belt of walls (1349-68) encircles | 1490-1560), Spanish historian and the city. Villeneuve, on the r. bk. | diplomatist, favourite of Charles of the river, is connected with v. His account of the emperor's Avignon by the famous bridge in 1669. The only industries of note are those of silk, copper, zinc, has been translated into several and lead. The Popes regularly languages. resided in Avignon from 1309 to 1378, and at intervals up to 1417, the town and surrounding dis- 15 m. N. by W. Oviedo, on ry. to trict remaining a papal posses- Gijon. Port on Bay of Biscay. sion until 1791. Petrarch first | Several foundries and textile facsaw Laura in Avignon, and she tories. Pop. 13,000. was buried in the church of the Cordeliers, now destroyed. In dep., France, 8 m. N. by E. of 1873 John Stuart Mill died here. Pop. 50,000. See Joudon's Avignon: son Histoire, ses Papes, ses Monuments, et ses Environs (1842); and Digonnet's Le Palais des Papes d'Avignon (1908).

Avila (anc. Abula), city of Spain, cap. of prov. of same name, 70 m. N.W. of Madrid, on main N. Ry., ancient and picturesque decaying city on the lower slopes of the tain People (1887). Guadarramas. The Moorish walls and towers stand almost intact. Avila was the birthplace of Santa | German S.W. Africa, close to Teresa (1515-82). Pop. 12,000. Little and Great Windhoek. The province (part of Old Castile) Avitus, MARCUS MECILIUS (d. is relatively poor agriculturally, 456 A.D.), emperor of the West but produces timber, chestnuts, (455-456 A.D.), was a descendant of and olives; its rich mines of coal, a noble family of Auvergne. As copper, and lead are little worked. | prefect of Gaul he defeated the

Avila, JUAN DE (1500-69), the 'apostle of Andalusia,' born in La Mancha; passed twenty years as a priest. He belonged to the Spanish mystic school, and left a number of works published by Ruiz de Mesa in Vida y Obras de Juan de Avila (1618).

Avila, Sancho de, a Spanish general whoserved under the Duke of Alva and under Requesens in Louis of Nassau, and sacked Antwerp in 1576, but was killed at the siege of Maestricht in 1579. See Brantôme's Vies des Grands Capi-

taines (1665).

Avila y Zuniga, Luiz de (c. war with the Protestant princes, built in 1108, and partly destroyed | Comentarios de la Guerra de Alemaña (1548; new ed. 1852),

Aviles, or SAN NICOLAS DE AVILES, tn., prov. Oviedo, Spain,

Avion, comm., Pas de Calais

Arras. Pop. 9,400.

Avison, CHARLES (?1710-70), English musician, of Newcastle; is known by his Essay on Musical Expression, by several sets of sonatas and concertos, and by his edition, in eight volumes, of Marcello's Psalms. See Hawkins's Hist. of Music (1776) and Browning's Parleyings with Cer-

Avispoort, an opening in the mountains in Damara Land,

Area, 3,040 sq. m.; pop. 200,000. Huns and Vandals. He became

whose assistance he ascended the throne at the death of Maximus (455). After a reign of fourteen months he was deposed by Ricimer, and appointed bishop of Placentia.

Aviz, ORDER OF ST. BENEDICT, a Portuguese military and religious order founded in 1162 to oppose the Moors, the knights being under the Cistercian and Benedictine discipline. In 1211-23 King Alfonso removed the order to the fortress of Aviz, whence the name. It is now (since 1879) simply a military order, with three classes—grand cross, commander, Archer's Orders of Chivalry.

Avizandum. In Scotland, when a court takes time to consider before deciding a case, it is said to take the case ad avizandum; in England, the court is

said to reserve judgment.

Aviona (Ital. Valona), tn. and seapt., Turkey in Europe, vilayet Janina, on the bay of the same name, Adriatic, 58m. s. of Durazzo. Until 1691 it was under the suzerainty of Venice. It is an archiepiscopal see of the Orthodox Greek Church. Pop. over 6,000.

Avoca, or Ovoca, short riv., Co. Wicklow, Ireland, formed by the sub-tribs. A vonmore and A vonbeg at 'the meeting of the waters,' and famed for its silvan scenery and for Thomas Moore's wellknown lines (Irish Melodies, 1779).

Avocado Pear. See Alli-

GATOR PEAR.

Avocets, widely-distributed birds belonging to the genus Recurvirostra, of which one, R. avotheir curious curved beak.

ambassador at the court of Theo- | Vercelli (1809), of mathematics at doric, king of the Visigoths, with Turin (1820), discovered 'Avogadro's law'—that equal volumes of different gases, at the same temperature and pressure, contain the same number of molecules.

Avoirdupois. See WEIGHTS

AND MEASURES.

Avola, tn., prov. Syracuse, Sicily, 22 m. by rail s.w. of Syracuse; produces wine, almonds, and sugar. It dates from 1693, when an earthquake destroyed the ancient town. Pop. 16,500.

Avon, Celtic word meaning 'river;' a common name for British streams, of which the following are the most important:—(I.) Upper or Warwickshire Avon, rising and chevalier. See Lawrence- near Naseby, Northamptonshire, and flowing through Warwickshire and Worcestershire to join the Severn on the l. bk. at Tewkesbury, passing Stratford, hence Shakespeare's designation 'Swan of Avon.' Its length is nearly 100 m. (2.) Lower Avon, or Bristol Avon, entering the Bristol Channel 6 m. below Bristol: length, 70 m. It is subject to very high spring tides, which sometimes rise above 40 ft. (3.) East Avon, in Wiltshire, flowing through Salisbury; length, 50 m. (4.) A trib. of Spey, Banffshire, Scotland, 30 m. long. (5.) Trib. of Clyde, Lanarkshire, Scotland, 28 m. long.

> Avondale, par., 9½ m. s.w. of Hamilton, W. Lanarkshire, Scotland, with the battlefield of Drumclog (1679), immortalized in Scott's Old Mortality. Pop. 6,000.

> Avonmouth, tn. and docks at mouth of river Avon, Gloucestershire, England, 6 m. N.W. of Bristol.

Avranches, tn., dep. Manche, cetta, bred in England till 1824. France, on St. Michel's Bay, 67 The avocets are limicoline birds, m. s. of Cherbourg. Candles, allied to the plovers and sand- lace, nails, bell foundry, copperpipers, and are characterized by smiths, tanneries; cider, butter, salt, cattle. It was a bishopric Avogadro, AMADEO DI from 6th century till 1791; and in QUAREGNA E CERETTO, COMTE English possession from 1421 till (1776-1856), professor of physics at | 1450. It suffered at the hands of

Protestants in 1562, and again in chopping wood; formerly also a 1639 during a revolt of the peasants. Pop. 7,400. See Le Héricher's Avranchin monumental et historique (1845-6).

Awaji, island of Japan, at the eastern entrance of the Inland Sea, two hours by steamer from Kobe. Its area is 218 sq. m., and pop. some 170,000. Its scenery is very beautiful, and the island is

much visited by tourists. Award. See ARBITRATION.

Awe. (I.) River of Argyllshire, Scotland, flowing N.W. from loch of same name into Loch Etive; a famous salmon and sea-trout stream with rugged and precipitous banks, especially in the Pass of Brander. (2.) Loch of Argyllshire, Scotland, 22 m. E. of Oban, base of the mt. is the ledge of 118 ft. above sea-level, and 223 m.

long. Ben Cruachan looks down on the island-studded N. end, and on the N.E. shore is Kilchurn Castle (built 1441), mentioned in The Macgregors' Gathering.

Awl-wort (Subularia aquatica), a plant of the order Cruciferæ, found in shallow water or in wet places. Roots numerous and fibrous; leaves like awls-short and narrow; flowers inconspicuous.

Awn, a bristle-like growth, called also beard, which arises from the backs or apices of the outer flowering glumes of many species of grasses and cereals; a prolongation of the midrib.

Awomori, or Aomori, tn. and seapt., Japan, with a fine natural harbour, at N. extremity of Nippon, 444 m. by rail N. of Tokyo. Timber, fruit, and vegetables are exported. The port was opened | the leaf arises. It is the normal for foreign trade in 1906. Pop. 50,000.

Ax, or Ax-LES-THERMES, tn., axillary. The old term was ala. dep. Ariège, France, on Ariège R., 25 m. s.E. of Foix, at 2,350 ft. altitude; famous for its warm sulphur springs, sixty-one in number (63- forms a similar angle; but for 171° F.). Pop. 1,500.

weapon of war. (See BATTLE-AXE.) It was in the earlier ages made of flint or bronze, but is now made of iron with a cutting edge of steel. The head is pierced to allow entrance to the end of the handle, haft, or helve. The cutting edge is in the same plane as the handle, and not, as in the adze,

at right angles to it.

Axenberg, a rocky precipice (3,670 ft.), with a sheer descent to the E. shore of the S. arm of Lake Lucerne, Switzerland, between Brunnen and Flüelen. These tns. are connected by a noted carriage way, the AXENSTRASSE (72 m. long), cut out of the solid rock and completed in 1866. At the rock - the Tell's Platte - on which is Tell's Chapel.

Axestone, a hard variety of mineral, jade or nephrite, of a greenish colour; so called from its use by the Maoris and the South Sea islanders for axe-heads. It is found in Cornwall, also in Silesia, Central Asia, and China.

Axholme, or AXHOLM, ISLE OF, a dist. in Lincolnshire, insulated by the Trent, Don, Idle, and Torne; about 17 m. long by 9 m. broad. Epworth and Crowle are the principal places in it. The practice of 'warping'-i.e. of inundating the land at certain times with mud-laden water—is still pursued. It was drained and reclaimed by Vermuyden (1625-34). See Peck's Isle of Axholme (1815).

Axil, the upper angle between a leaf and the stem from which position for the origin of lateral buds, which are therefore termed

Axilla (Lat. 'armpit') is, strictly speaking, the armpit, or any other part of the body which practical purposes axilla is ap-Axe (spelt ax in the Bible), an plied to the armpit only. It is instrument used for hewing and the pyramidal space which lies

between the inner side of the upper arm, or arm proper, and made of nitro-glycerine and nitrothe adjacent part of the chest wall. The apex of this pyramid points upwards and inwards toward the root of the neck. The large nerves and vessels for the arm pass through the axilla, and the glands there are a common seat of abscesses and other troubles.

Axinomancy, an ancient Greek ordeal for the discovery of crime. See DIVINATION.

Axiom, a proposition or premise which, being self-evident, requires no proof, and is taken for granted. As a technical term the word 'axiom' is now restricted to the self-evident premises of geometry, the corresponding term in philosophy being intuition.

speak of the axis of a planet, Pop. 3,000. vertebral column.

body being profusely spotted with white on a dark background. It is about the size of the European fallow deer; the male has slender, sharp-pointed horns, little branched. It has been kept in parks both in England and on the Continent.

Axite, a smokeless powder cellulose. It resembles cordite, and is manufactured in ribbons, with double bevelled edges when intended for big guns. It is claimed to be superior to cordite in having a less corrosive effect on the barrel, in giving increased velocity and greater accuracy, and in evolving a lower temperature.

Axminster, mrkt. tn., Devon, England, 27 m. w. of Dorchester, on the Axe. The town is pleasantly situated on the slope of a hill, and has an ancient church. It was once famous for the manufacture of carpets, but it is now largely dependent on its brush factories; there are also corn, flour. and saw mills and iron-founding, Axis, in general, an imaginary The first Duke of Marlborough line about which any solid body | was born at Ashe near by. About rotates, or about which any geo- 1 m. to the s. are remains of metrical figure or organic struc- Newenham Abbey, a Cistercian ture is symmetrical. Thus, we foundation of the 13th century.

running through the sphere from | Axolotl (Amblystoma, or Sirepole to pole; and in scientific in- don pisciformis) is a Mexican and struments, machinery, etc., the N. American amphibian, not inaxis is represented by a pin, frequently kept in captivity in bearing, axle, or other element, aquaria. It resembles a newt in about which, as the centre of its | shape, and has a powerful tail, rotation, a part is free to move. two pairs of weak limbs, and And again, we speak of the axis three pairs of simple external of an ellipse, parabola, cone, etc.; gills. In this form it breeds and the stem of a plant, about | freely, both under natural condiwhich the leaves, branches, etc., I tions and in aquaria, the young are disposed in a radially sym- resembling their parents. Under metrical manner, is termed the certain conditions, as yet not axis. In human osteology the fully understood, this gilled stage name is applied to the second may be converted into another cervical vertebra, which supports form (Amblystoma), in which the the atlas, or highest bone in the gills and the membrane of the tail are lost; these forms also re-Axis Deer, an Indian form re- produce, but their young are markable for its coloration, the axolotls, and are not like their parents. These facts justify us in regarding the axolotl as a prematurely sexual larva, and the gill-less form as the adult.

> Axum, Axoum, or Aksum, tn., cap. of prov. Tigré, Abyssinia, 113 m. s.w. of Massowah; formerly the capital of a powerful Ethio-

pian kingdom. (See ETHIOPIA.) being exceedingly long and very Axum has been Christian since the 4th century, and is now regarded as a sacred city by the Abyssinians. There are numerous remains of Greek architecture. Pop. 5,000. See Bent's The Sacred City of the Ethiopians (1893).

Ay, tn., Marne dep., France, 15 m. s. of Rheims, noted for its

champagne. Pop. 7,400.

Ayacucho, tn., Peru, cap. of dep. of same name, in lat. 13° 8' s. In 1539 Pizarro founded the town of San Juan de la Victoria on the site of the Indian Huamanga (Falcon Rock); and after the victory of General Sucre over the Spaniards (Dec. | 9, 1824) the independence of Peru | On his death (632) she secured the was secured, and the name of the caliphate for her father, Abutown was changed to Ayacucho. Bekr, against the prophet's sonand several monasteries. Alt. | Caliph Othman's death, she tried

9,260 ft. Pop. 20,000.

Ayala, PEDRO LOPEZ DE (1332-1407), Spanish poet and historian. A noble of the court of Peter the Cruel, he fought for Henry of Trastamare at the battle of Najera (1367). He afterwards occupied the positions of councillor to Henry II. and high chancellor to John I. His great work is the Cronicas de los Reyes de Castilla, 1350-96, a vivacious and brilliant work (best ed. 1780). He also translated Livy into Spanish.

Ayamonte, seaport tn., Huelva prov., Spain, near mouth of the

Guadiana. Pop. 7,500.

Aye-aye (Chiromys madagascariensis), a remarkable animal now placed among the lemurs in nal in its habits, and is confined 1761. Pop. 9,300. to Madagascar, where it inhabits the dense forests. A notable pe- | lesforde), tn. and par., Kent, Engculiarity is the structure of the land, 3 m. N.N.W. of Maidstone, front teeth, which are large, on the Medway, here crossed by curved, and chisel-edged like those an ancient bridge. In 455 a of a rodent. The hands are also battle was fought in this neighvery remarkable, the middle finger | bourhood between the Britons

slender; it is said to be used in picking out wood-boring insect larvæ. The aye-aye is about as large as a cat, and has large naked ears.

Ayenbite of Inwyt, THE ('Remorse of Conscience'), a translation (1340) of Lorens's Le Somme des Vices et des Vertus (1279) by Dan Michel, an Augustinian monk of Canterbury. It is the best example of Kentish southern English, and is supposed to have been used by Chaucer for The Persones Tale. See editions by Morris (Early Eng. Text Soc., 1866). and A. J. Wyatt (1889).

Ayesha, wife of Mohammed. Ayacucho contains a cathedral in-law, Ali; and again, at the to exclude Ali, but was taken prisoner (656). She died at Medina (677). See MOHAMMED.

Aylesbury, mrkt. and co. tn., Buckinghamshire, England, near the Thame; an important railway centre, situated on high ground, overlooking the fertile vale to which it gives name. Some of the interesting public buildings are due to the Rothschild family. Outside the town, on the N.E., is a female convict prison. Large printing works; other industries, straw-plaiting and lace-making. Dairy-farming and the rearing of ducks are extensively followed in the district. During the civil war the so-called battle of Aylesbury was fought (1642) at Holman's the mammalian order Primates, Bridge, near the town. John though it was once regarded as | Wilkes represented the borough a rodent. It is entirely noctur- in the Parliaments of 1757 and

Aylesford (anc. Ailesforde, Eyl-

Alfred, and in 1016 by Edmund Ironsides. Kits Coity House, a remarkable cromlech, 'The Countless Stones, an entrenchment on Blue Bell Hill, and certain upright stones at Horsted, are all interesting remains. Pop. 2,700. See Archaologia, ii. 107-117,

iv. 110-116, xi. 38-44.

Aylesworth, ALLEN BRISTOL (1854), Canadian politician, was the death of Mr. Justice Armour (1903) he was commissioned as one of the Canadian members of the

Dominion.

Ayliffe, John (1676-1723), an from Oxford University because of personal attacks in his Ancient and Present State of the University of Oxford (1714), and was defended in The Case of Dr. Ayliffe at Oxford, probably (Gent. Mag., lxxiv. 646) written by himself. He wrote Parergon Juris Canonici Anglicani (1726), a learned work, still authoritative; The Law of Pledges (1732), an inquiry into the methods of pawnbrokers and their accomplices in iniquity; and A New Pandect of Roman Civil Law (1734). See G. B. Macdonell, in Dict. Nat. Biog., ii. 279.

Aylmer, John (1521-94), tutor to Lady Jane Grey, was appointed archdeacon of Stow (1553), but was expelled for his disbelief in helped John Fox in the translation of Acts and Monuments into

and Saxons, when Horsa, the Lincoln (1562), and then bishop of Saxon leader, was slain; in London (1577), where he was very 893 the Danes were defeated by unpopular. His reply to Knox's Monstrous Regiment of Women, entitled An Harborowe for faithful and trewe Subjects, etc. (1559), is the best known of his works. He is said to have been the original of Spenser's Morrell, 'the proude and ambitious pastoure' of the Shepheard's Calendar.

Aylmer, MATTHEW, LORD AYLMER (1643-1720), British admiral. In the actions off Beachy born at Newburgh, W. Canada, Head (1690) and Cape Barfleur and called to the bar in 1878. On (1692) he commanded the Royal Catherine. In 1709 he became admiral of the fleet, and in 1714 governor of Greenwich Hospital.

Alaska Tribunal. In 1904 he Ayloffe, SIR JOSEPH (1709-81), obtained a seat in the Dominion | English antiquary, appointed one parliament, and became post- of the keepers of state papers in master-general. In 1906 he be- 1763. He was vice-president of came minister of justice for the | the Society of Antiquaries, whose charter of incorporation he took a prominent part in procuring. eminent Whig jurist, was expelled His chief work is Calendars of the Antient Charters (1772). He edited Leland's Collectanea (6 vols. 1771). See Thomson's Hist.

of the Roy. Soc.

Aymaras, a numerous and formerly powerful S. American people whose territory lay chiefly on the Bolivian plateau round Lake Titicaca, and thence south to and beyond Lake Aullagas. The Aymaras, whose proper name is Colla, appear to represent the primitive stock from which sprang the Quichuas—i.e. the dominant people of the Peruvian empire. The two languages are related as mother and daughter. The Aymaras are generally undersized and ungainly, with short, thickset, robust figures, arched nose, transubstantiation; took refuge small extremities, coppery skin, in Strassburg, and later in Zürich, highly brachycephalic (round) where he acted as tutor, and head, and a sullen even churlish disposition. Their civilization was antecedent to that of the Incas, but Latin. When Elizabeth came to | was in some respects more highly the throne he returned to Eng- | developed, judging at least from land, and became archdeacon of the stupendous monuments of

Tiahuanaco at the south end of Lake Titicaca. These surprising megalithic structures, rivalling those of Egypt and Baalbec in massiveness, were never completed, the works having been arrested by the Inca, Mayna Capac, about 1140 A.D., when the Quichuas overthrew the rival Aymara kingdom, and adopted much of their culture, religion, and traditions. All are now nominal Catholics. In 1900, Aymaras of pure stock were estimated at about 500,000, and the Hispano-Aymara halfbreeds at 100,000.

Aymer de Valence, EARL OF PEMBROKE (d. 1324), was the son of a half-brother of Henry III. The town hall was rebuilt (1901-2). In 1306 he became guardian of There is an excellent academy, tenant of Scotland in 1314, and

fought at Bannockburn. Aymestry Limestone, a darkgray impure limestone, not over 40 ft. thick, consisting chiefly of shells and corals, and named after the village in Herefordshire where it has long been quarried, It belongs to the Ludlow rocks of the Upper Silurian, and occurs also

near Ludlow and Ledbury.

dogne, the father of four sons-Renaud, Guiscard, Alard, and smaller streams water the N. Richard—whose adventures form one of the most popular romances of the middle ages, attributed to traverse the county and fall Huon de Villeneuve (13th cen- into the Firth of Clyde. The tury). Renaud, or Regnault, the principal heights are Shalloch on owner of the famous steed Bay- | Minnoch (2,520 ft.), and Kirrieard, makes successful war against Charlemagne. The brothers appear in the works of Tasso, Boiardo, and notably in the character of Rinaldo in Ariosto's Orlando. See Ferrario's Storia degli Antichi Romanzi (1828-9); Caxton's Foure Sonnes of Aymon (?1489), English trans. by O. Richardson (1884).

Ayr, cap. of Ayrshire, Scotland, and a roy. bur., situated on river Ayr, 33 m. s.s.w. of Paisley, on the G. & S.W.R. A temporary barrack, known as the Barns of Ayr, was (1297) the scene of Wallace's tragical exploit. The old church of St. John was the meeting-place of the parliament of Bruce in 1315, which assigned the succession to his brother Edward. The Wallace Tower, 113 ft. high, was erected in 1834. There is a statue to Robert Burns (1891). The 'Twa Brigs' of Burns's poem stand within 500 yds. of each other. One of them, the 'Auld Brig,' was recently restored by public subscription. Scotland, defeated Bruce at Meth- | founded 1760. The Carnegie Libven, but was defeated by Bruce | rary was erected in 1893; Ayr at Loudon Hill. He sided with County Hospital in 1883. The Lancaster against the court, but | harbour has a patent slip dock was afterwards reconciled to the 800 ft. long; depth of water in the king. He was appointed lieu- basins, 19 ft. to 23 ft. The industries are shipbuilding, carpet, lace, woollen, chemical manufacturing, and shoemaking. Along with Campbeltown, Irvine, Inveraray, and Oban, it unites in sending one member to Parliament. Pop. 30,000.

Ayrshire, a maritime co. in the s.w. of Scotland, bounded on the w. by the Firth of Clyde; area, 1,142 sq. m.; its greatest Aymon, or HAIMON, of Dor- breadth is 28 m., and its length 78 m. The Irvine and some portion; the Doon, Stinchar, Girvan, and Ayr, with Lugar, reoch Hill (2,562 ft.). The soils may be divided into three kindsmossy and moorish, sandy, and clayey. Agriculturally rich, Ayrshire does a large export trade. The Ayrshire cows yield milk rich in butter-making qualities. The renowned 'Dunlop' cheese has been somewhat superseded by the Cheddar, which is largely of St. Paul's Cathedral, a Mus. made. Early potatoes are ex- Doc. (Cam. 1784), and the author of church services and anthems.

Aytoun

See the Harmonicon (1833).

Ayrton, WILLIAM (1777-1858), English impresario and writer, was the first to introduce Don Giovanni (King's Theatre, 1817); edited the Harmonicon for ten years from 1823, and published Sacred Minstrelsy (1834-5) and the Musical Library.

Ayton, SIR ROBERT (1570-1638), Scottish poet, was born at Kinaldie, Fifeshire; travelled in France, and was successively gentleman of the king's bed-Western Highlands and Islands. | chamber, secretary to the queen, feated by Wallace and by Bruce | poems have been edited by Sir at Ayr, Turnberry, and Loudon | Charles Rogers (1871; 2nd ed. Hill. Pop. 255,000. See James 1884). The two songs, 'I do confess Paterson's Hist. of the County | thou'rt smooth and fair,' and the of Ayr (1847-52); Ayr Archaeol. | early 'Auld Lang Syne,' printed and Hist. Collections (1878-79); in Watson's Collection (1707), have A. Millar's Castles and Mansions | been attributed to Ayton, on of Ayrshire (1885); Dougall's questionable grounds. See Me-

TOUNE (1813-65), Scottish poet, Ayrer, Jacob (d. 1605), a Ger- was born in Edinburgh. In 1845 man dramatic poet, and a notary | he became professor of rhetoric in at Nuremberg, whose Opus Theat- | the university there. He married ricum was published in 1618. In a daughter of Professor Wilson his early works he follows Hans | (Christopher North) in 1849, and Sachs, but frequently models in 1852 was appointed sheriff of upon Shakespeare, or uses the Orkney and Shetland. He died same sources. A new edition of at Blackhills, near Elgin. Aytoun, his Opus Theatricum, in 5 vols., who was a staunch Jacobite, is best edited by Keller, was published at known for his Lays of the Scot-Stuttgart in 1865. See Robertson's | tish Cavaliers (1848) and the Bon Zur Kritik J. Ayrers (1892). Gaultier Ballads (1855), the latter Ayres, John (c. 1680-1700), cal- written in conjunction with Sir ligraphist, famous as the intro- Theodore Martin. His tragedy, ducer of the Italian hand into | Firmilian (1854), was written as a Britain. He wrote a Treatise on parody of the 'spasmodic' school Penmanship (1697). See More's of poetry, represented by Sydney Dobell and Alexander Smith. His other works include Poland, Homer, and other Poems (1830); Bothwell, a poem (1856); a collection of the Ballads of Scotland (1858); a translation of Poems and Ballads of Goethe, in conjunction 1805). He was also vicar-choral | with Sir Theodore Martin (1858);

tensively grown. The principal town is Ayr; the seaports, in addition to Ayr and Ardrossan, being Girvan, Irvine, Largs, Saltcoats, and Troon. There are woollen and steam-engine factories, foundries, tanneries, chemical and dynamite works, shoe, carpet, lace, and bonnet making, and extensive coalmining. Ruins of ancient castles exist at Dundonald, Sorn, Turnberry, and Loch Doon. Alexander III., by his victory at Largs (1263), dealt the deathblow to Norwegian supremacy over the Edward I. of England was de- and master of requests. The Burns Country (1904); and moir prefixed to edition of 1871. Harvey's Picturesque Ayrshire Aytoun, WILLIAM EDMONDS-(1905).

First Invention of Writing (1716).

Ayrton, EDMUND (1734-1808), English musical composer, was born at Ripon, son of a barbersurgeon. A pupil of Dr. Nares, he succeeded him as master of the children of the Chapel Royal (1780Norman Sinclair, a novel (1861). Hist. of Paraguay (1802; Eng. See Life of Aytoun (1867), by Sir | trans. 1838). Theodore Martin; Pollok and Aytoun (Famous Scots Series), by

Rosaline Masson (1898).

Ayuntamiento, the Spanish town council, of which the alcalde is chairman. Instituted in Roman times, the alcaldes ac- Lev. 16:7 f.), but now univerquired great political and municipal authority, which they gradually lost under the Bourbons, but from 1812 to 1843 were partially restored. In 1870 the alcaldes 14:6 f.), and, for analogies, Frazer's were deprived of their political powers, and confined to the ordinary municipal administration.

Ayuthia, tn., Siam, built principally on piles, on the l. bk. of the Menam, 42 m. by rail N. of came of a noble Piedmontese Bangkok, was the first capital family. At fifteen years of age (from 1350 to 1767) of the present | he went to Rome with his father, Siamese people. It was taken who was ambassador at the papal by the Burmese in 1767, after a court. There he studied art and two years' siege. Pop. about

50,000.

Ericaceæ, differing from the rho- he met Manzoni, whose daughter dodendron in having only five he married. Turning to literastamens. The hardy azaleas are ture, he produced two novels, all deciduous, and came from N. | Ettore Fieramosca (1833) and Nic-America and S. Europe. The colò de Lapi (1841), which roused American kinds are often called much enthusiasm among the pa-Ghent azaleas, from the place triotic party. He now traversed where their varieties were first the country, stirring up the fires cultivated. The British species is A. procumbens, found in patches | cing the extreme propaganda of on Scottish moors.

of the same name, United Prov- Casi di Romagna ('On the Recent inces, India, 52 m. N.E. of Benares. | Events in the Romagna'), in which

chanted or recited five times daily Italian princes the necessity of a wards Mecca, generally from the he joined the patriotic army turret of the mosque designed for | against Austria, and was severely this purpose.

NIAM-NIAM.

guay (1781-1801), wrote the Voyage affairs; but in 1852 he resigned, dans l'Amérique Méridionale, 4 making way for Cavour. In July vols. and atlas (1809), and Nat. 1859 Azeglio was sent to the

Azariah. See Uzziah.

Azazel, formerly supposed to designate the goat chosen to carry away the sins of the Israelites on the Day of Atonement (hence rendered 'scapegoat' in A.V.; see sally taken as the name of a desertspirit or fallen angel, for whom the goat was destined. Cf. the bird liberated for leprosy (Lev. Golden Bough, ii. 18 f. (2nd ed.

1900). Azeglio, Massimo Taparelli, Marchese D' (1798-1866), Italian statesman, artist, and author, music, excelling as a landscape painter. When his father died, in Azalea, a genus of the order 1830, Azeglio went to Milan, where of patriotism, but discountenan-Mazzini. In 1846 he wrote a Azamgarh, tn., cap. of dist. pamphlet entitled Degli Ultimi Pop. of tn. 20,000; of dist. 1,500,000. he satirized the papal govern-Azan, the Moslem call to prayer, ment, and demonstrated to the by the muezzin, with his face to- national policy. Two years later wounded at the battle of Vicenza Azandeh, or ZANDY. See (1848). When Victor Emmanuel II. ascended the throne, he ap-Azara, Felix de (1746-1811), pointed Azeglio president of the naturalist and traveller in Para- council and minister of foreign

Roman states as military com-His political corremissioner. and autobiography spondence were published after his death, under the title of I miei Ricordi (15th ed. 1895). See Lives by Pavesio (1871) and Bianchi (1884); Italy, 1815-90, by J. W. Probyn (1891).

Azerbaijan, or ADERBAIJAN (over 40,000 sq. m.), a fertile and mountainous province in N.W. Persia, and encroaching on Armenia towards Mt. Ararat (16,916 ft.). Mt. Savalan (15,820 ft.) lies towards the E.; Lake Urumiah lies in the w.; and the river Aras (Araxes) forms the N. boundary, its tributary, the Kara-Su, being the only other important stream. about 1,500,000.

Azevedo, MANOEL ANTONIO

show undeniable genius.

Azimuth is the angular distance of a celestial object from the N. or S. point of the horizon, 360°. See ALTAZIMUTH.

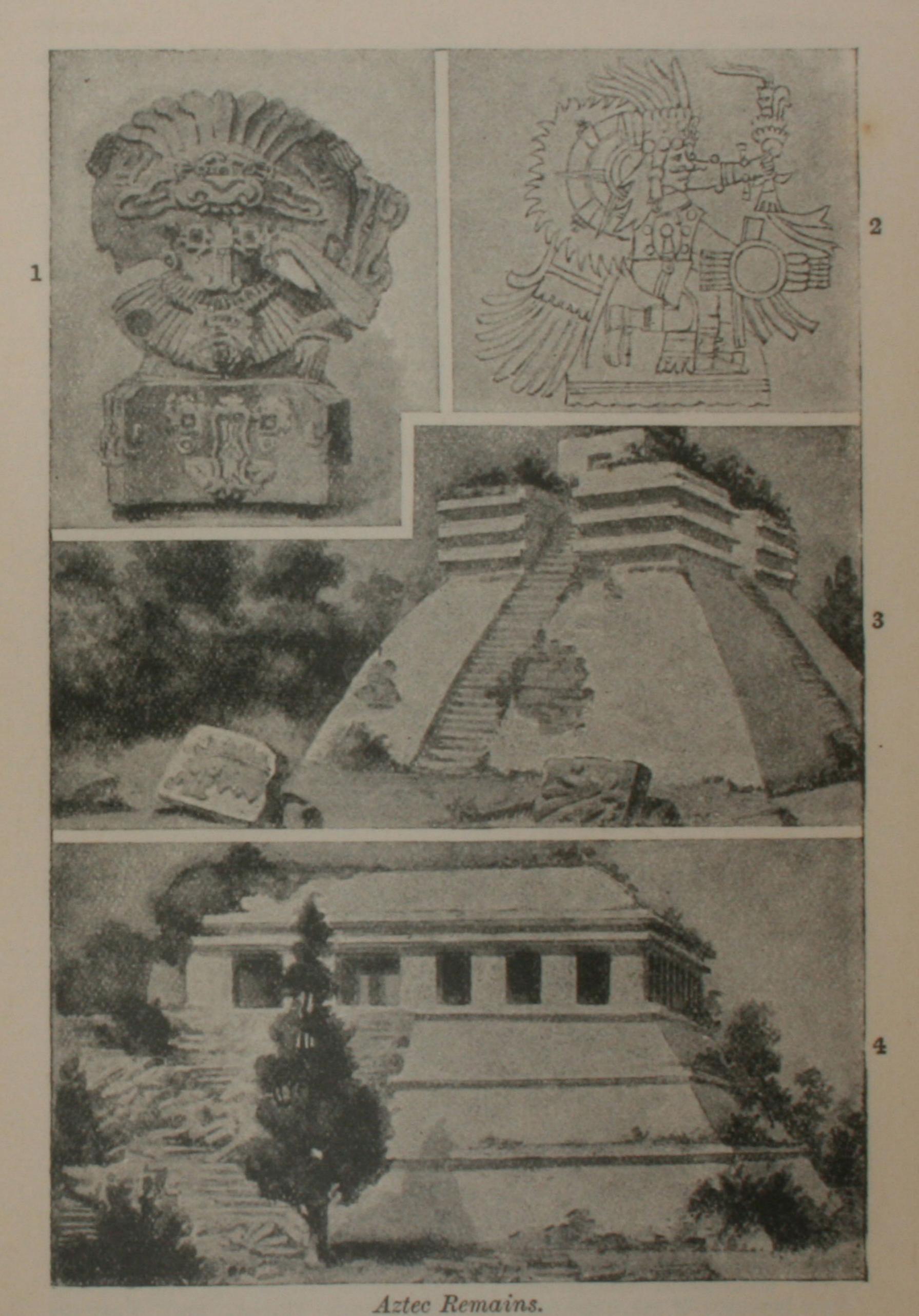
Azincourt. See AGINCOURT.

Azo-Compounds contain one or more—N=N-groups connectferring colour.

Azoic, a term applied to the earliest geological formations, as from them no fossils or other evidence of the existence of living creatures has been obtained. It is now discarded in favour of Pre-

cambrian or Archæan.

Azores (in Portuguese, Açores = 'Hawk Islands'), a group of islands in the Atlantic, 930 m. w. of the coast of Portugal, of which country they are not colonies, but a constituent part. They are of volcanic origin, have steep rocky coasts, a mountainous interior (7,700 ft.) seamed with glens, and a most excellent climate—a pure atmosphere and equable temperature (50° to 73½° F. being the range). The soil is fertile, and Wheat, maize, cotton, hemp, and produces fine oranges, good wine tobacco are grown in considerable | (some 970,000 galls. annually), variquantities. Carpets and' fruit ous other fruits, yams, bananas, are the chief exports. The chief coffee, sugar, and tea. Fishing is towns are Tabriz (the cap.), one of the chief occupations. Pot-Urumiah, Khoi, Ardebil, and tery, cottons, spirits, hats, wool-Maragha. Pop. estimated at lens, linens, cheese and butter, soap, baskets and mats, bricks and tiles, are all made on the is-ALVARES DE (1831-52), Brazilian lands. The total trade reaches poet; wrote, in the temper of an annual value of over £200,000. Heine and Byron, Lyra dos Vinte | The only tolerably safe harbour Annos (1851; 5th ed. 1884), which is at Horta, on Fayal I. Volcanic outbursts have shaken the archipelago in 1591, 1638, 1719, and 1841. There are several mineral springs. The principal or the angle comprised between islands are São Miguel, or St. the meridian and a vertical plane Michael, 300 sq. m., and pop. passing through the object. In 127,000, its chief town being the N. hemisphere it is usually Ponta Delgada, with 18,000 inreckoned from the s. point of the | habitants; Terceira, 163 sq. m., horizon through the w. from 0° to and pop. 49,000, the chief town being Angra, with 11,000 inhabitants; Pico, 173 sq. m., and pop. 24,000; Fayal, 69 sq. m., and pop. 22,000—chief town Horta, with ing aromatic radicals of various 7,000 inhabitants; São Jorge, or kinds. They are prepared by St. George, 94 sq. m., and pop. complex processes, and in many 16,000; Graciosa, with 24 sq. m., cases-such as that of 'Bismarck and 8,400 inhabitants; and the brown,' 'chrysoidin,' Biebrich smaller St. Mary, Flores, and scarlet, etc. - are of value as dyes, Corvo. The total area is 922 the -N=N-, or 'azo' group con- | sq. m.; the total pop. 260,000; the chief town of the entire ar-



1. Terra-cotta fanciful bust, covering square box, found near Zachila. 2. Representation of Tonatish, the substance of the sun. 3. Pyramid near Tehuantepec. 4. Temple near Palenque.

chipelago is Ponta Delgada. The storms to which it is always liable ish and Flemish blood: because of the Flemish settlers introduced there by Isabella of Burgundy in 1466, the group was for some time known as the Ilhas Flamengas, or Flemish Islands. The Azores were discovered at an early date, against the usurper Miguel. See Godman's Nat. Hist. of the Azores (1870); Ray's The Azores (1892); and Brown's Madeira and the Azores (1903).

Azotized Bodies, an old name

for nitrogenous compounds. Azotus. See Ashdod.

Azov, fort. tn., Russia, on l. bk. of Don, 7 m. from its mouth, 25 m. E. of Taganrog. The navigation of the river at this point is impeded by silt. The inhabitants are mainly engaged in fish-curing.

Pop. 27,500. Azov, SEA OF (anc. Palus Maotis), is a sea which penetrates into the s. of Russia, and is connected. s. through the Strait of Kerch or Yenikale with the Black Sea. From the shore of the Crimea, in the s.w., to the mouth of the Don, covers an area of 14,515 sq. m., Crimea to the isthmus of Perekop. Navigation of the Sea of Azov is

people are mainly of Portuguese | while in winter it is generally icedescent, but have a blend of Moor- | bound. Its surface lies at about the same level as the surface of the Black Sea. Its waters, which are less salt than those of the Black Sea, teem with fish. Some three centuries before the Christian era the Greeks had flourishing mercantile colobut were first explored by the nies in the Azov region, and Portuguese navigator Cabral in maintained them for at least 1431. The islands, till then un- seven hundred years; and again inhabited, were colonized by the in the 13th and succeeding cen-Portuguese soon afterwards. In turies other commercial stations 1828-33 the islanders rendered (e.g. Tana) were established here loyal assistance to King Pedro by Genoese, Venetians, and Pisans.

> Azpeitia, tn., prov. Guipuzcoa, Spain, 20 m. s.w. of San Sebastian; the birthplace of Ignatius Loyola, founder of the Jesuits. There are pilgrimages (July) to the monastery in which his house is preserved. Pop. 6,000.

> Azrael, or ASRAEL, the 'Angel of Death,' is a figure in Jewish mythology as far back as the days of King Solomon. Like many other personages in the religion of the Hebrews, he has been recognized by the Mohammedans as one of the servants of Allah.

Aztecs, one of the chief cultured peoples of the New World; so called from Aztlan, the fabulous land of the 'Seven Caves' in the north, whence they migrated southwards, and founded a powerin the N.E., it measures 220 m. It | ful empire in the valley of Mexico, some three or four hundred years and is everywhere very shallow, before the discovery of America. the maximum depth being only | Here they had been preceded by 53 ft. At the s.w., along the the Chichemecs and other con-Crimean shore, it forms a long, quering tribes, all belonging to the narrow lagoon, separated by a Nahua race, which had overthrown ribbon of sand, and known as Si- the still earlier empire of the Tolvash, or the Putrid Sea; and a | tecs, and borrowed much of their further series of irregularly-shaped | culture. The relations are very lagoons stretch across the N. of the | obscure, but much light has been thrown on them by E. Seler's commentaries on the Mexican beset with great difficulties, not pictorial codices of the Aubin, only because of its extreme shal- Fejérvary-Mayer, and Vatican lowness, but also because of the collections (English editions by

A. H. Keane, 1901, 1902, 1903), from which the Aztecs would seem to have been northern barbarians, who developed their political and social systems under the influence of the Toltec (Maya) civilization which they had destroyed. Their polytheistic religion was largely their own, and this was marked by human sacrifices and other unspeakable horrors unapproached by any other religious system of which there is record. Their astronomy was mainly astrological, or used for astrological purposes - the determining of good and evil days, divination, the taking of horoscopes, witchcraft, and the like. Yet they could take accurate observations, not only of lunations, but also of the periods | Argentina, 175 m. s. by w. of of Venus; divided the solar year | Buenos Ayres. It has steam mills into 18 months of 20 days each, with 5 intercalaries; named each Azulai, HAIM JOSEPH DAVID day by consecutive hieroglyphic (1724-1807), Jewish bibliographer, signs (the day counts); and cal- born in Jerusalem, but lived and culated annual periods of 4, 13, died in Leghorn. His Shem-ha-52, and some say even 52 + 52 = 104 Gedolim ('The Name of the Great cycles. But the writing system | Ones') is a catalogue of Jewish was mainly pictorial, with few authors and their books. phonetic elements, and in this re- Azuni, Domenico Alberto spect was greatly inferior to the (1749-1827), Italian historian and true phonetic syllabary. The Az- dinia, but held judicial offices in tec monuments also-mainly teo- Nice and Genoa, and was placed calli-i.e. truncated pyramids sur- by Napoleon on the commission mounted by temples-were not to which drew up the commercial be compared with those of Yuca- code. The Sistema Universale dei tan, while the finest in Mexico | Principi del Diritto marittimo itself (Teotihuacan, Colula, Pa- dell' Europa (1795), Dizionario pantla) were the work of their della Giurisprudenza Mercantile Toltec predecessors. Before the (1786-8), and Histoire de Saroverthrow of their empire by daigne (1802) are his chief works. Cortes in 1520, the Aztecs had Azure (abbrev. Az), in herreduced the civilized peoples of aldry the colour blue, repre-Oajaca (Zapotecs, Mixtecs, etc.), sented in engraving by horizontal and had founded settlements far to lines. thes., where their descendants, the Pipils of Guatemala, Salvador, and the Niquirans of Nicaragua, still speak a corrupt form of the Nahua stock language. This language, which has long been cultivated, is at present spoken by

and perhaps 500,000 half-breeds, on the Anahuac table-land. See Peñafiel's Monuments of Ancient Mexican Art (1891); Payne's History of the New World, vol. i. (1892); also works cited under Mexico.

Azuaga, tn., prov. Badajoz, Spain, 17 m. from Llerena. Centre of silver-lead-mining district. Important Roman ruins.

Pop. 14,000.

Azuay, or Asuay, prov. Ecuador, lying N.W. of Oro and Loja. Area exceeds 6,000 sq. m. Agriculture and cattle-raising are the main occupations. The cinchona tree is found abundantly on the mountains. Pop., mostly Indians. 132,000. Chief tn. is Cuenca.

Azul, tn., prov. Buenos Ayres,

and quarries. Pop. 7,800.

Maya, which approximated to a jurist, was born and died in Sar-

Azurine, or Blue Roach, is, according to some authorities, a mere variety of the rudd or redeye (Leuciscus erythrophthalmus), a fresh-water fish common in certain parts of England, where it accompanies the roach. Accordabout 1,000,000 full-blood Aztecs, ling to others, however, the azuthen called caruleus. See Rudd and ROACH.

Azurite, a copper ore, so called from its deep blue colour, and also known as chessylite, from its abundance in beautiful crystals at Chessy, near Lyons. It is a basic carbonate of copper, and, like malachite, which it often accompanies, is found chiefly where copper ores is used in the eucharist.

rine merits specific rank; it is have been exposed to water containing carbonic acid. It was formerly much used by painters, but is liable to change to malachite and become green: this is believed to be the origin of the green skies in some old paintings.

Azymites (Gr. 'not leavened'), a name applied to members of a church where unleavened bread

END OF VOL. II.



