

John Emsley

# Nature's Building Blocks

Emsley

**Nature's Building Blocks**  
*An A-Z Guide to the Elements*

73 Ta	74 Hf	75 Zr	76 Nb	77 Ti	78 Sc	79 Cr	80 Mn	81 Fe
79 Tc	80 Ru	81 Os	82 Os	83 Rh	84 Pd	85 Ag	86 Cd	87 In
105 Rh	106 Os	107 Os	108 Os	109 Rh	110 Os	111 Os	112 Os	113 Os
109 Rh	110 Os	111 Os	112 Os	113 Os	114 Os	115 Os	116 Os	117 Os
113 Os	114 Os	115 Os	116 Os	117 Os	118 Os	119 Os	120 Os	121 Os

**An A-Z Guide to the Elements**

"a marvel...sheer delight." Oliver Sacks

OXFORD

# Natures Building Blocks An A Z Guide To The Elements

**John Emsley**

## **Natures Building Blocks An A Z Guide To The Elements:**

Nature's Building Blocks John Emsley,2001 Everything we see around us is made of the chemical elements they are Nature's building blocks Our own bodies contain about 30 of them some in abundance some in trace amounts but nevertheless vital to our health and some that are positively harmful The Earth consists of around 90elements and again some are abundant such as the silicon and oxygen of rocks and soils while some are so rare that they make gold seem cheap yet even these can be part of our everyday life The total number of known elements is now 115 at the last count although most of the 25 new elements that have been synthesized in the past half century have existed for less than a day Some however have accumulated until they now threaten the environment Nature's Building Blocks explains the what why and wherefore of the chemical elements Arranged alphabetically from Actinium to Zirconium it is a complete guide to all 115 of those that are currently known and especially those which comprise everything we encounter in our everyday life The entry on each element reveals where it came from what role it may have in the human body and the foods that contain it There are also sections on its discovery its part in human health or illness the uses and misuses to which it is put and its environmental role A list of the main scientific data and outline properties are given for every element and the section ends with an Element of Surprise which highlights some unexpected way in which each element impinges on our everyday life

Nature's Building Blocks John Emsley,2003 A readable informative fascinating entry on each one of the 100 odd chemical elements arranged alphabetically from actinium to zirconium Each entry comprises an explanation of where the element's name comes from followed by Body element the role it plays in living things Element of history how and when it was discovered Economic element what it is used for Environmental element where it occurs how much Chemical element facts figures and narrative and Element of surprise an amazing little known fact about it A wonderful dipping into source for the familyreference shelf and for students

**Nature's Building Blocks** John Emsley,2001      **Applied Science and Precision Engineering Innovation** Chien Hung Liu,2013-12-06 Selected peer reviewed papers from the International Applied Science and Precision Engineering Conference 2013 October 18 22 2013 Nan Tou Taiwan      Sungai Nur Hidayah Shabuddin,Hani Kartini Agustar,Norela Sulaiman,2020 On water quality of Sungai Sepetang in Perak Malaysia      **National Guide to Funding for the Environment and Animal Welfare** Elizabeth H. Rich,Liz Rich,1998 The new 4th Edition of the National Guide thoroughly prepares you for an informed grant search It covers over 1 700 foundations and corporate direct giving programs with an interest in the field providing you immediate access to crucial fundraising information grantmaker addresses financial data giving priorities contact names and key officials lists of sample grants and a range of indexes To show you the grantmakers demonstrated giving interests the volume includes over 4 400 descriptions of grants recently awarded to projects and organizations involved in international conservation ecological research litigation and advocacy waste reduction animal welfare and many other related projects

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